

DAEWOO

DVD-VIDEO PLAYER

Owner's Manual

SD-8100/SD-2100

- ◆ Region code of DVD/Video player for home is region "2" or ALL. In inserting a disc with other region code, it does not operate. Please only use a disc with region code 2 or ALL.
- ◆  is a 'DO NOT' mark. If this mark is displayed in operating the product, please wait for a while, then use it. If " DO NOT" mark continues to be displayed in pressing a button after that, it means the button does not function in the currently played disc.
- ◆ Press a product button on the REMOTE then use the product.
 - DVD operation : [DVD] button
 - Video operation : [VCR] button

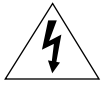


Advantages of This Product Are

- ✓ DVD, VCD, CD, CD-R(MP3), CD-RW, VHS
- ✓ DVD one-touch record function
- ✓ Watching DVD for recording broadcast
- ✓ Integrated remote control (VCR, DVD)
- ✓ VISS function
- ✓ Multiplex sound playback/record
- ✓ High Sound Quality of 6 head Hi-Fi
- ✓ Simple record function
- ✓ MP3 file playback function (CD-R disc having records of MP3 files)
- ✓ Various video type-supported (AUTO, NTSC and PAL)
- ✓ GUI (Graphical User Interface) through OSD (On Screen Display)
: By using the [DISPLAY] button on the remote control, information on the DVD/VCD/CD player and disc, can be displayed on the TV screen.
- ✓ Screensaver function (DVD)
- ✓ 3D sound (3D sound effect using 2 speakers)
- ✓ High bit / High Sampling with 27MHz / 10bit video encoder
- ✓ High bit / High sampling with 96MHz / 24bit Audio D/A Converter
- ✓ Coaxial, Optical digital Audio output (PCM, Dolby digital, dts)
: You can enjoy high-level digital audio by connecting with amp embedded with Dolby digital / dts decoder.
- ✓ Built-in Dolby digital decoder (DVD)
- ✓ Analog audio 2-channels output for DOWNMIX (x1)
- ✓ Composite video output (x1)
- ✓ S-Video output (x1)

- ✓ **Slow Forward / Reverse playback (DVD)**
- ✓ **Fast Forward / Reverse playback**
- ✓ **Search of title, chapter, and time in DVD disc, and search of track and time in VCD and CD**
- ✓ **Various TV aspect (DVD)**
: 4:3 for Pan and Scan, 4:3 for Letter Box, and 16:9 for Wide
- ✓ **Repeat playback (title and chapter for DVD, track and disc for VCD/CD)**
- ✓ **Bookmark function (DVD/VCD)**
: Playback position can be made to remember up to 3 positions for speedy search.
- ✓ **Selective Play (DVD/VCD/CD)**
: You can select and play the desired title / chapter of DVD and track of Video CD/CD in STOP mode.
- ✓ **8 languages OSD (On Screen Display) function (DVD)**
: You can select and display OSD in 8 languages. (E / G / I / S / F / D / SW / FIN)
- ✓ **Parental Lock function (DVD)**
: This function can prevent playback of software that may be unsuitable for children.
- ✓ **Multi Audio function (DVD)**
: The audio soundtrack can be heard in up to 8 languages. In the case of SVCD or VCD, it depends on the disc. (The number of audio languages depends on the software.)
- ✓ **Multi Subtitle function (DVD)**
: The subtitle can be seen in up to 32 languages. In the case of SVCD or VCD, it depends on the disc. (The number of audio languages depends on the software.)
- ✓ **Multi Angle function (DVD)**
: This function allows you to choose the viewing angle of scenes which were shot from a number of different angles. (The number of angles depends on the software.)
- ✓ **Screen zoom function (DVD/VCD)**
- ✓ **Thumbnail view function (in VCD with inactivated PBC)**

Important Safeguards

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

IMPORTANT FOR LASER PRODUCTS

- LASER :** This Digital Video Disc Player employs a Laser System. To ensure proper use of this product please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location - see service procedure.
 Use of control adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.
 To prevent direct exposure to the laser beam, do not try to open the enclosure. Visible laser radiation when open and interlocks defeated.
DO NOT STARE INTO THE BEAM.
- DANGER :** Visible laser radiation when open and interlock failed or defeated.
 Avoid direct exposure to beam.
- CAUTION :** Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

**CLASS 1
LASER PRODUCT**

CAUTION: Any changes or modification in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- Make sure the unit should be placed at least 8cm apart from the other home appliances or the obstacles to get sufficient ventilation.
- This unit shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on this unit.
- Switching it off does not disconnect it from the mains (stand-by). To disconnect it from the mains, you have to unplug it.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

1 READ INSTRUCTIONS

All the safety and operating instructions should be read before the unit is operated.

2 RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3 HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to.

4 FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5 CLEANING

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6 ATTACHMENTS

Do not use attachments unless recommended by the unit's manufacturer as they may cause hazards.

7 WATER AND MOISTURE

Do not use this unit near water- for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.

8 ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to a child or adult as well as serious damage to the unit. Use this unit only with a cart, stand, tripod, bracket, or table recommended by the manufacturer.

PORTABLE CART WARNING
(symbol provided by RETAC)



8A

A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

9 VENTILATION

Slots and openings in the case are provided for ventilation to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered. These openings must not be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat radiator. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10 POWER SOURCES

This unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.

11 GROUNDING OR POLARIZATION

This unit is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way.

This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. To prevent electric shock, do not use this polarized plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted without blade exposure. If you need an extension cord, use a polarized cord.

12 POWER-CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

13 LIGHTNING

For added protection for this unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

14 DISC TRAY

Keep your fingers well clear of the disc as it is closing. It may cause serious personal injury.

15 OVERLOADING

Do not overload wall outlets of extension cords as this can result in a risk of fire or electric shock.

16 OBJECT AND LIQUID ENTRY

Never push objects of any kind into this unit through openings as they may touch dangerous voltage points or "short-out" parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.

17 BURDEN

Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.

18 DISC

Do not use a cracked, deformed or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

19 SERVICING

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20 DAMAGE REQUIRING SERVICE

Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions.

- A. When the power-supply cord or plug is damaged.
- B. If liquid has been spilled, or objects have fallen into the unit.
- C. If the unit has been exposed to rain or water.
- D. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
- E. If the unit has been dropped or the cabinet has been damaged.
- F. When the unit exhibits a distinct change in performance-this indicates a need for service.

21 REPLACEMENT PARTS

When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of replacements specified by the unit manufacturer can prevent fire, electric shock, or other hazards.

22 SAFETY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks recommended by the manufacturer to determine that the unit is in safe operating condition.

23 WALL OR CEILING MOUNTING

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24 HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Read Carefully before Using

Cautions in use of DVD-Video player are described below.

Please read carefully before using a DVD-Video player.

✓ Installation place and handling

- When you place this player near other devices, they may affect poorly together.
- When you place DVD-Video player and TV in the upper and lower sides, it may cause flickering of pictures or failure (tape is not ejected).
- When you place this player near strong magnetic materials, it may affect image or voice poorly or damage recording.
- Do not spill volatile liquids like insect spray over the player. Do not leave rubber or plastic products in contact with the player for a long time. They will cause deterioration or paint peel-off.

✓ Not in use

- When the unit is not in use, be sure to remove the disc or tape and turn off the power.
- If you do not use the unit for a long period, remove batteries in remote control to prevent leakage.
- In case you don't use the unit for a long time, the unit may not function properly in the future. Turn on and use the player occasionally.

✓ Moving

- Repack the unit as it was originally packed at the factory. Alternatively, pack this product with towel not to be damaged.
- Eject any videotape.

✓ Cleaning

- Dust off dirt in cabinet or control panel part smoothly with a soft cloth.
- For heavy dirt, soak the cloth in a weak detergent solution, wring it well and wipe. Use a dry cloth to wipe it out.
- Follow instructions in using chemical cleaners.
- Do not use any type of solvent such as gasoline or benzene, as they may cause deterioration or paint peel-off.

✓ Checking

- Video is a high precision device. To obtain a clear screen, we recommend regular inspection and maintenance every 1,000 hours of use by technical engineers.
- For checking, contact your dealer or your nearest service center.

✓ Checking and Replacement of Antenna

- Antenna is subject to change in its direction or damage by wind and rain. For clean screen, contact and consult your nearest service center about checking and replacement.

✓ In recording important screen

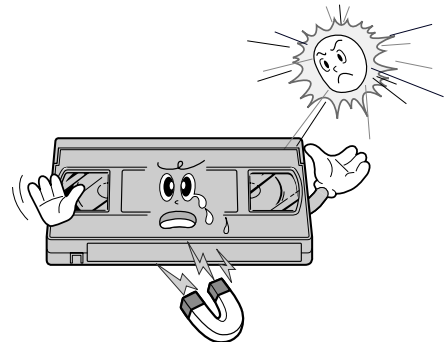
- Be sure to record the screen and check whether recording is performed properly. We beg you to understand compensation of recording if recording is not performed by badness of used tape or video.

✓ Copyright

- Do not use your recordings without permission of a copyrighter except personal usage.

✓ Tape and Disc Handling

- Do not use any tape and disc below. Damage of video head or cut/coiling of tape may cause failure.
 - Tape with mold
 - Tape or disc stained with juice or attachments
 - Tape having breakage connection
 - Disassembled tape
 - Disc with severe scratch
- Moisture condensation may occur in tape. Moisture condensation damages the tape. Please use the tape after the moisture condensation is disappeared.
- After use, store tape vertically in a case to prevent loose.
- Do not store the following places.
 - High temperature and humidity
 - Subject generation of mold
 - Subject to direct sunlight
 - Much dirt or dust
 - Near strong magnetic materials such as speaker



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Setup

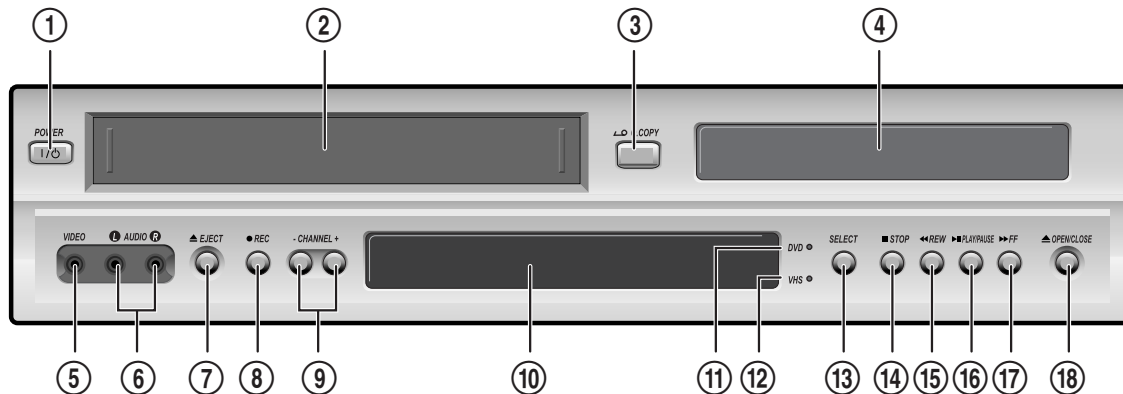
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Identification of Controls

Main body (front panel)



① POWER (STANDBY/ON) button

Use to power the device on/off if AC power supply is connected.

② Place to insert videotape

③ COPY button

Use to copy contents of disc into a videotape.

④ Disc tray

⑤ VIDEO INPUT jack

⑥ AUDIO INPUT jack

⑦ EJECT button

⑧ RECORD button

⑨ CHANNEL Select button

⑩ Operation Display Window

Display operation of device. For more information, see "Operation Display Window" in the next page.

⑪ DVD operation display lamp

⑫ VCR operation display lamp

⑬ SELECT button

Use to change DVD mode to VCR mode, and vice versa.

⑭ STOP button

Use to stop playing .

⑮ REWIND button

Use to rewind currently being played videotape or disc; or to playback back rapidly.

⑯ Playback/PAUSE button

Playback videotape or disc.

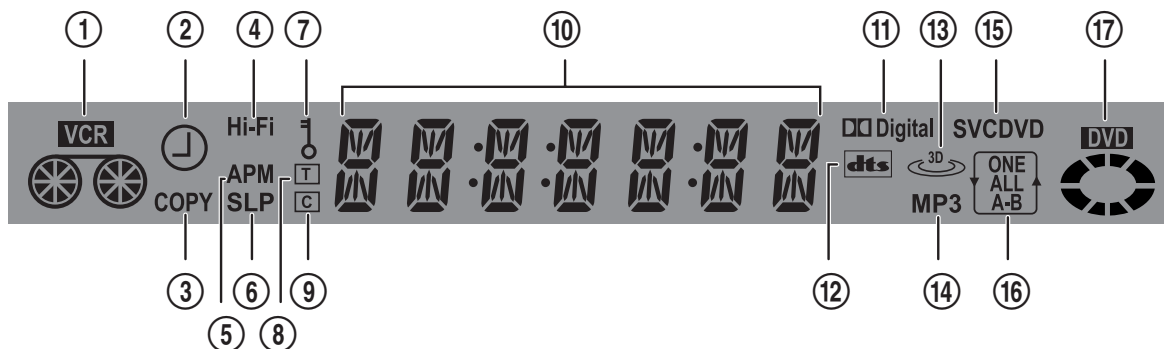
Press this button to pause a screen.

⑰ FAST FORWARD button

Use to wind currently being played videotape of disc or to playback rapidly.

⑱ OPEN/CLOSE Tray button

Operation Display Window



① VCR Operation

② REC and TIMER REC display

- : Recording ,
- ⌚ : TIMER Recording ,
- ⌏ : To be Timer-recorded ,
- ⚡ : To be Timer-recorded state ERROR (No Tape or Tape without tab)

③ Copying

Use to copy contents of disc into videotape.

④ Hi-Fi Videotape

⑤ Not used

⑥ Recording Speed

⑦ Parental (Lock)

When parental limit in "SETUP" menu is set except "8 UNLOCK" and you set a password, it goes into LOCK status (🔒) and this indicator is lighted up. This indicator disappears if you doesn't set a password.

⑧ Title

This is displayed in VCD and CD disc.

⑨ Chapter

This is displayed in DVD disc.

⑩ Time, Counter and Current Operation

OPEN : Tray is opened

CLOSE : Tray is closed

LOAD : Disc is loaded

NO DISC : There is no disc in tray

ERR DISC : Disc has some error

MENU : Menu screen is displayed

SETUP : Setup menu is displayed

ON : Power is ON

OFF : Power is OFF

⑪ Dolby Digital Indicator

⑫ dts Disc Indicator

⑬ 3D Sound Indicator

⑭ MP3 Disc Indicator

⑮ Disc Type Indicator

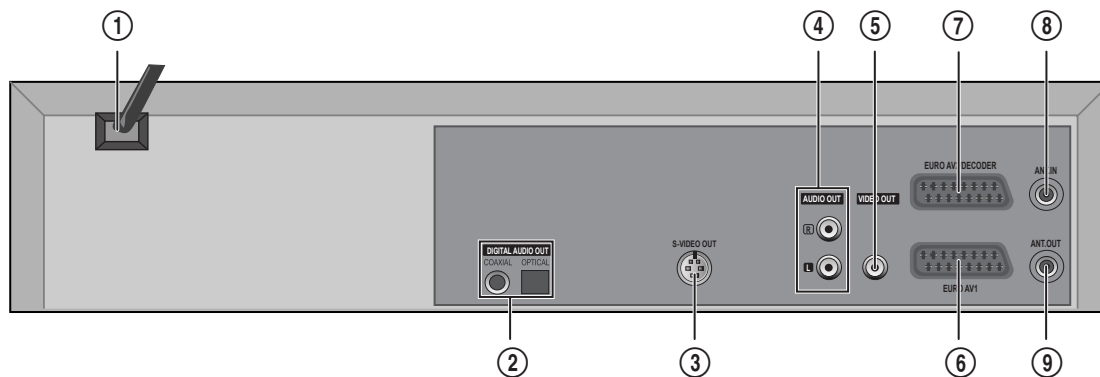
Currently loaded disc type (SVCD, VCD, DVD etc.) is displayed.

⑯ Repeat Playback

It indicates repeat playback is on now. ONE, ALL, and A-B mean repeat playback between a chapter or track; title or whole contents of disc; and two specific points respectively.

⑰ DVD Disc Operation

○ Main body (Rear Panel)



① POWER CORD

It is a jack for supplying power to the unit. Connect to outlet in a wall.

② DIGITAL OUTPUT (COAXIAL, OPTICAL) Jack

To enjoy sound quality of theater level in home, connect this jack with amp or unit embedded with digital audio decoder.

③ S-VIDEO OUT Jack

To obtain better screen quality, connect and use the unit to TV or monitor inputted from S-VIDEO.

④ AUDIO OUTPUT Jack

⑤ VIDEO OUTPUT Jack

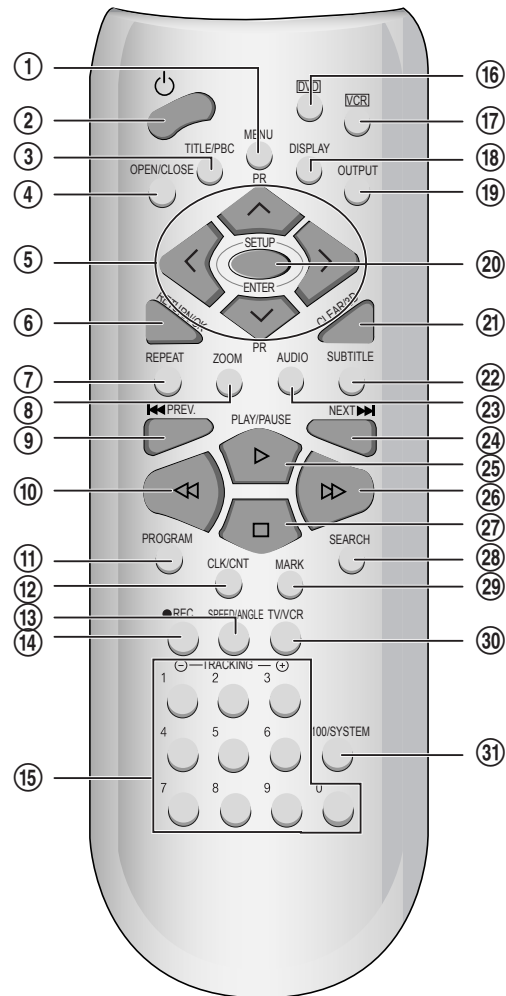
⑥ EURO AV1 Jack

⑦ EURO AV2/DECODER Jack

⑧ Connection to ANTENNA Cable

⑨ Connection to TV

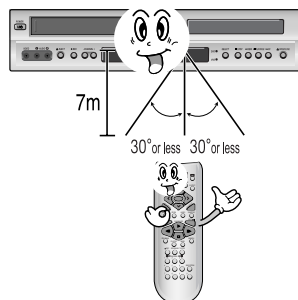
Remote Control



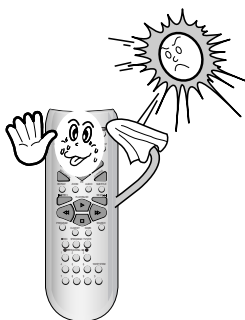
- ① [DVD] MENU button
- ② POWER button
- ③ [DVD] TITLE/PBC button
- ④ [DVD] OPEN/CLOSE button, [VCR] EJECT button
- ⑤ [DVD, VCR] MOVE/SELECT in OSD
- ⑥ [DVD] RETURN button, [VCR] OK button
- ⑦ [DVD] REPEAT Playback button
- ⑧ [DVD] ZOOM button
- ⑨ [DVD] PREVIOUS button (move into a previous scene or track)
- ⑩ REVERSE SEARCH button
- ⑪ [VCR] PROGRAM (Showview) button
- ⑫ [DVD, VCR] CLOCK/COUNTER button
- ⑬ [DVD] ANGLE, [VCR] Record SPEED button
- ⑭ [VCR] REC button
- ⑮ [DVD, VCR] NUMBER button , [VCR] TRACKING +/- button
- ⑯ DVD SELECT button
- ⑰ VCR SELECT button
- ⑱ [DVD, VCR] OSD DISPLAY button
- ⑲ OUTPUT Selection button
- ⑳ SETUP/ENTER button
- ㉑ CLEAR button, [DVD] 3D button
- ㉒ [DVD] SUBTITLE Select button
- ㉓ [DVD] LANGUAGE Select, [VCR] AUDIO Select button
- ㉔ [DVD] NEXT button (Move into a next scene or track)
- ㉕ PLAYBACK/PAUSE button
- ㉖ FORWARD SEARCH button
- ㉗ STOP button
- ㉘ [DVD] Chapter/Title/Time SEARCH button
- ㉙ [DVD] BOOKMARK button
- ㉚ [DVD, VCR] TV/VCR button
- ㉛ Number 100, [DVD] SYSTEM button

Instructions in Using remote control

- Operate remote control within 7m from the unit.
- Do not press 2(two) buttons at the same time.



- Do not light up sending and receiving part of remote control.



- Do not keep in the place with much dust and humidity.

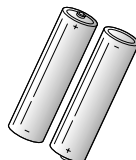


Accessories

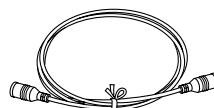
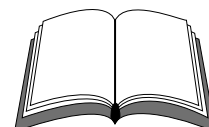
remote control



2 Batteries



Coaxial cable

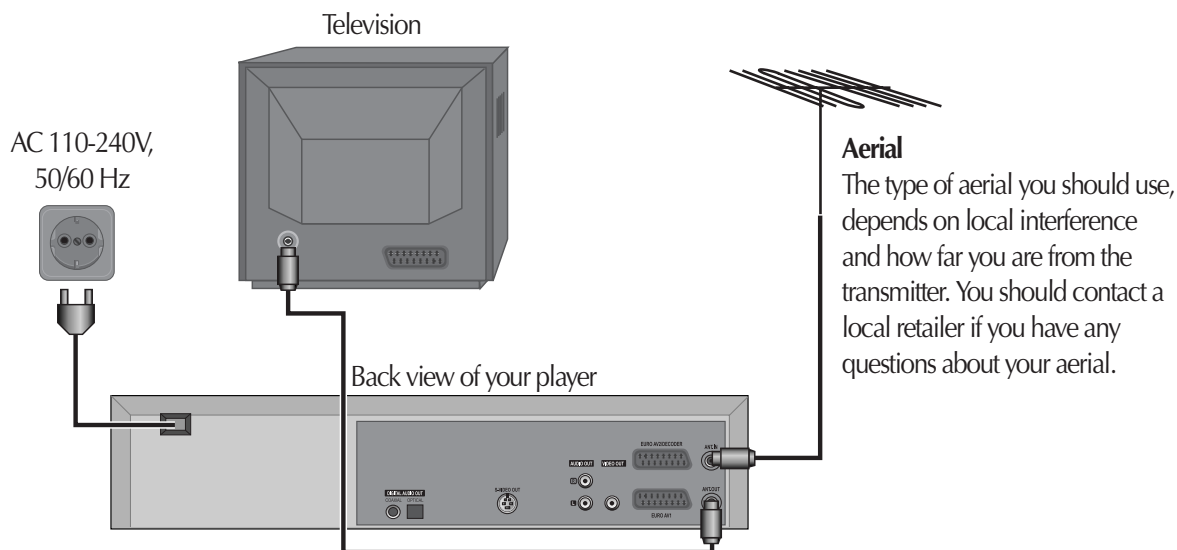
Owner's Manual/
Warranty

- To purchase accessories or not supplied parts additionally, contact your nearest dealer or service center. But, owner's manual and warranty are not sold additionally.

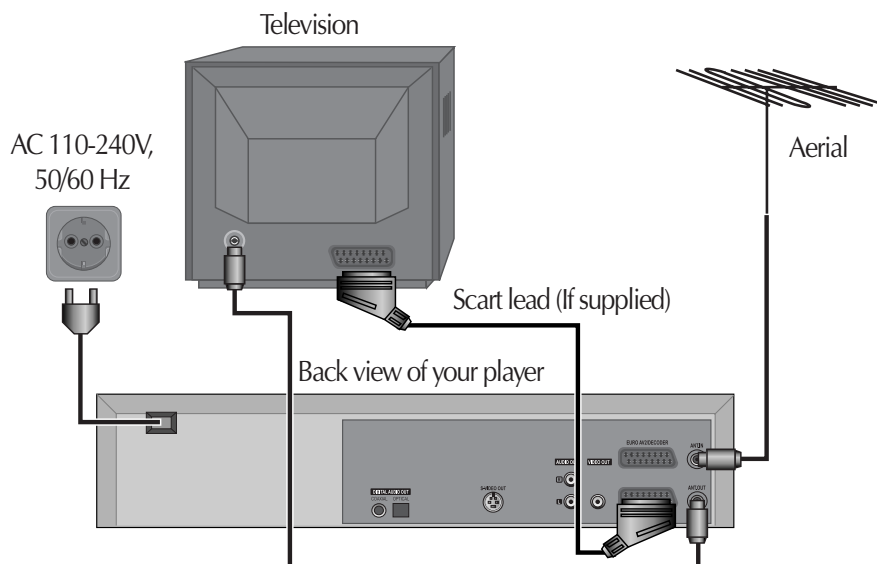
Setting up your player

■ Before you start, unplug all the equipment from the mains supply.

(Option 1) - Connecting your player through RF lead



(Option 2) - Connecting your player through a scart lead



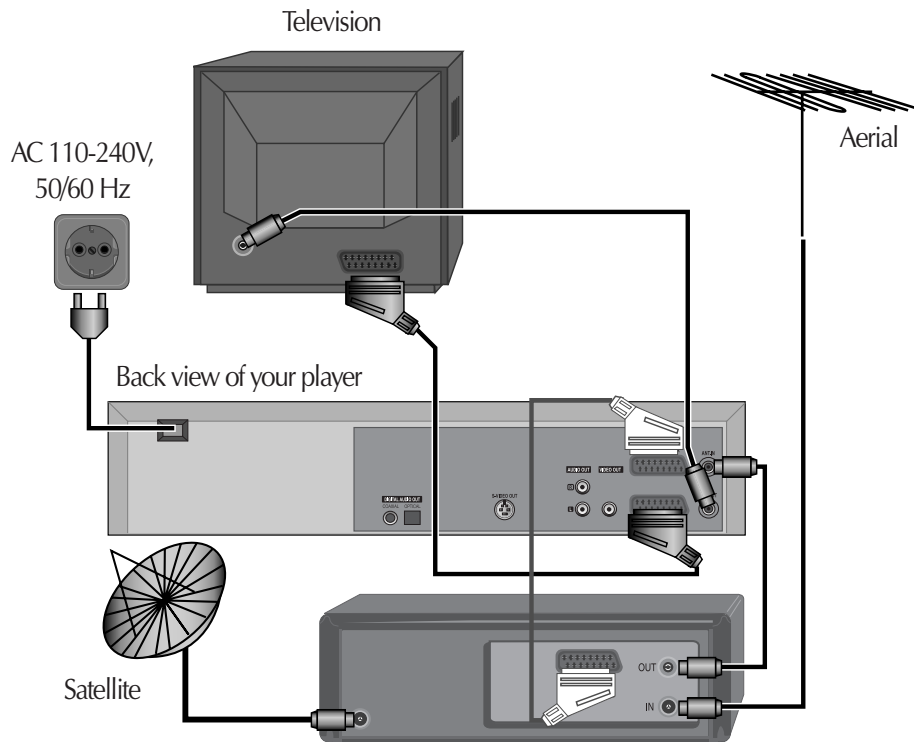
With this connection, if your player is receiving CH ARD and your TV is displaying CH3, when you press the TV/VCR button on the remote control, your TV will automatically display the CH ARD. "VCR" will be displayed.

In this mode, to change the viewing channels the PR- and PR+ buttons on the player remote need to be used. To switch off this mode press TV/VCR on the remote control, TV remote can now be used as normal. You will get better pictures and sound quality if you connect your player with a scart lead.

Connecting your player through extra equipment (satellite system)

■ Before you start, unplug all the equipment from the mains supply.

○ (Option 1) - Connecting your player through RF lead

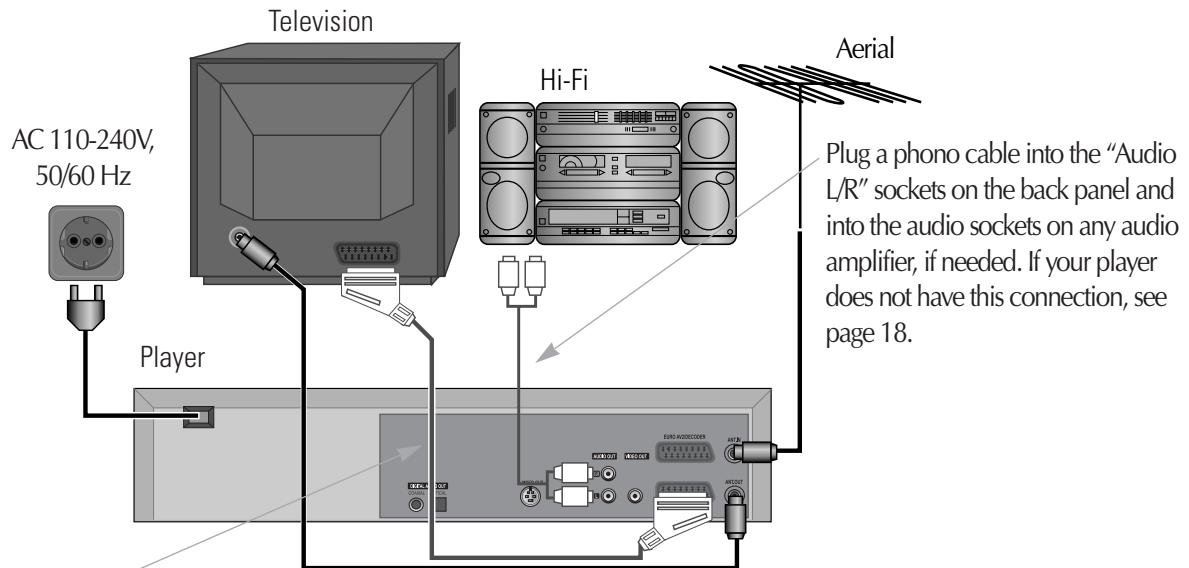


You can use this connection if your player has two scart sockets. This will improve sound and picture quality when you are recording from satellite.

Connecting your player to the hi-fi system

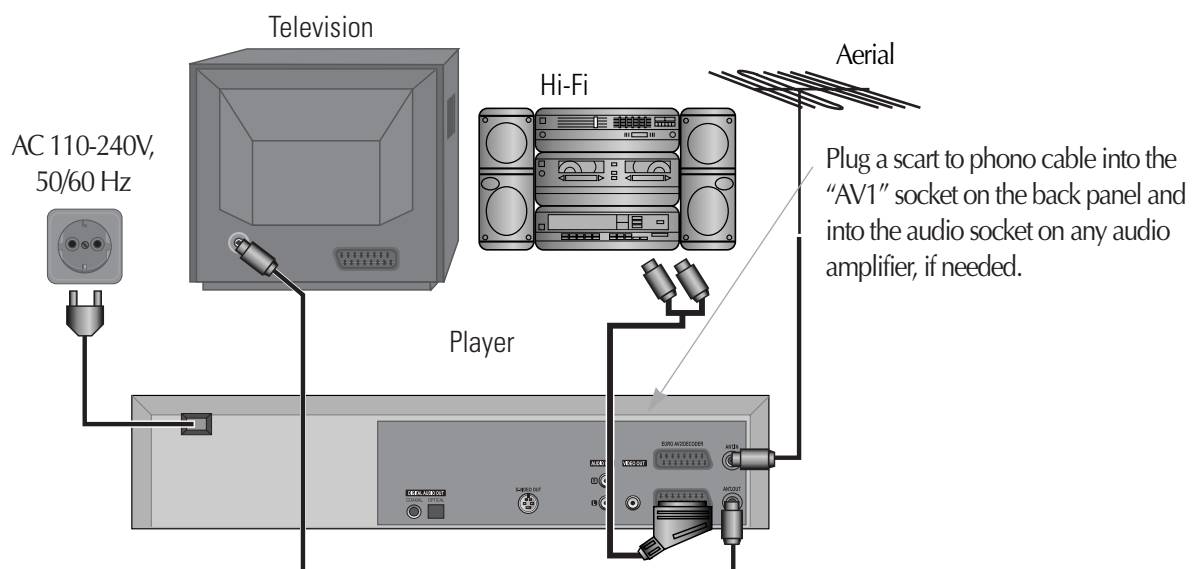
■ Before you start, unplug all the equipment from the mains supply.

Option 1



You can also use a scart lead to improve picture and sound quality from your player.

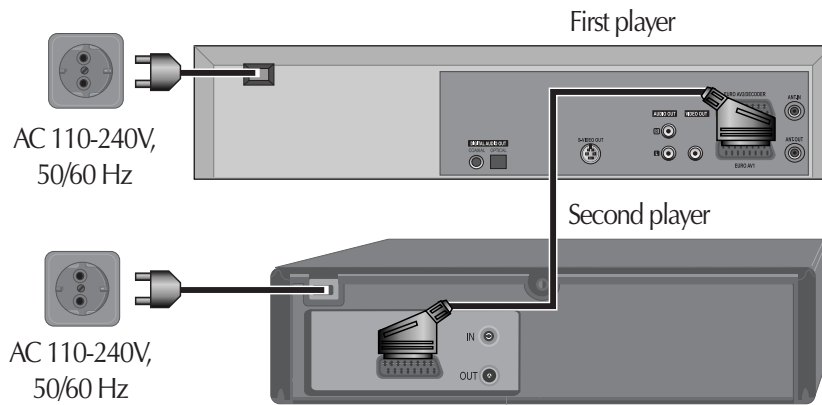
Option 2



How to connect your player to another player

■ Before you start, unplug all the equipment from the mains supply.

How to connect



- 1) Insert the tape you wish to record on into the first player and press AV until "AV1" appears on the front display.
- 2) Insert the tape you wish to copy from into the second player. Press the play button on the second player.
- 3) Press the record button on the first player

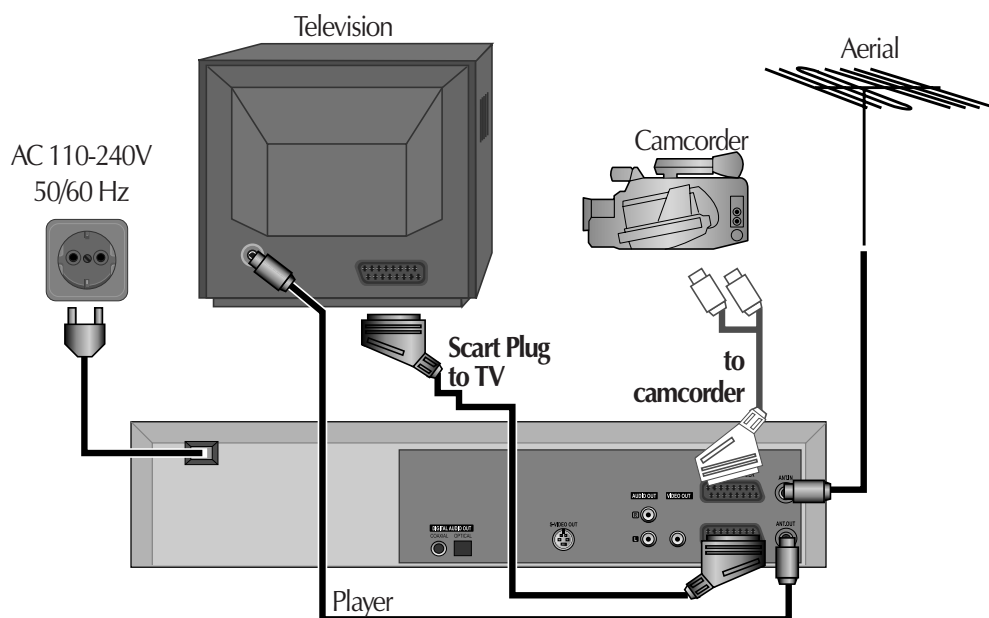
The player will start recording.

If your player has two scart sockets, you can use the other socket "AV2" to connect other equipment. To use this function, see page 22.

How to connect your player to a camcorder

■ Before you start, unplug all the equipment from the mains supply.

How to connect



If you have connected your camcorder in this way, you can also connect a scart lead from “AV1” on the back panel of the player to the television. To use this function, see page 22.

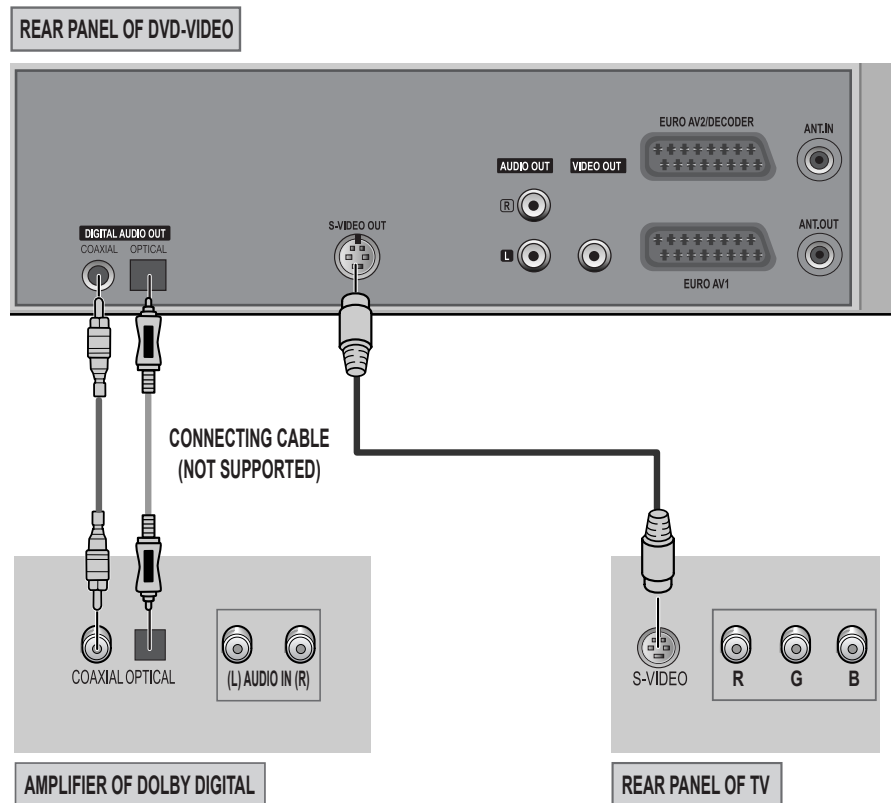
You can also connect the camcorder by using a phono cable if your player has front input sockets. Check the front of your player for this connection, see page 22.



Connecting TV with S-Video, Dolby Digital Amp with Digital Audio Out Jack

■ Use in S-VIDEO jack attached in TV or amp supporting Dolby digital.

How to Connect



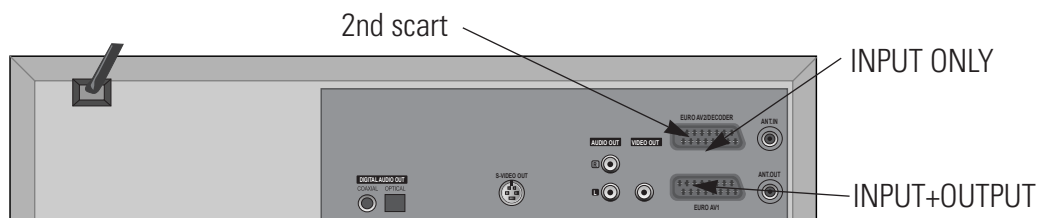
- 1 Select either **S-VIDEO IN** or **RGB IN** to connect to TV. You should select "Video Out" type in DVD SET (see 60P) in advance.
 - 2 Select either COAXIAL or OPTICAL to connect to amp of Dolby digital.
- ** If you want to know about "Dolby digital", please refer to [About DVD] in 66p.

Language	Video	Audio	Others
TV Aspect	4:3 PS		
TV Type	PAL		
Video Out	S-Video	RGB	
Brightness	Normal	S-Video	
Sharpness	Normal		
Move: ▲▼ Select: ◀▶ Exit: Setup/Return			

2nd scart socket

2nd scart socket

If your video has the AV2 output, shown in the diagram below, you can connect other equipment as seen on pages 17-20.

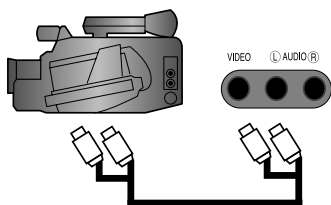


When connecting other equipment please refer to their manuals for further information. This video manual recommends the set up as shown on page 17. When connected by this method if the equipment is turned off the video behaves as normal, but if the equipment is turned on the video will automatically switch over to AV2 mode and displays the channel of the other equipment, channel selection can only be performed by the other equipment, the video PR+/PR- buttons have no effect.

To return to normal video use the other equipment must be turned off.

Recording from other Equipment.

Simple recording can be performed, ensure the equipment is turned on and is displaying the correct channel. Timer recording, set the video to perform a timed recording ensuring AV1 is selected as the channel to be recorded. Some equipment may have a timer which allows it to be powered on to the correct channel, if this feature is not available the other equipment should be left powered on.



Front AV

If the video has front input sockets, it is possible to connect devices such as a camcorder to the video. To watch a camcorder tape the video must be in AVF mode. Recordings of this input are the same as described on page 20.

Initial Installation

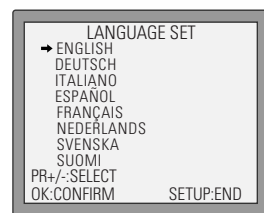
- Switch the TV on.
- You can also start "AUTO SET" in the SETUP "PR PRESET" → "AUTO SET".
- To tune in new stations (manual tuning) and to enter station names see page 33-35.

Setting up the player

1

You should see this picture the first time you switch on the TV and player.

Choose your language.

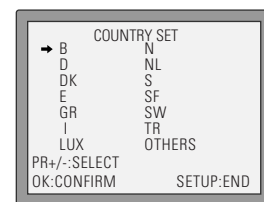


2

Then choose your country.

For selecting the country, refer to the followings.

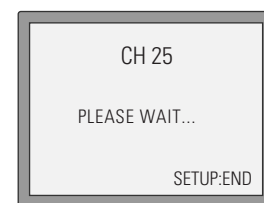
B: Belgium	N: Norway
D: Germany	NL: Netherlands
DK: Denmark	S: Sweden
E: Spain	SF: Finland
GR: Greece	SW: Switzerland
I: Italy	TR: Turkey
LUX: Luxembourg	



3

OK for "AUTO SET!".

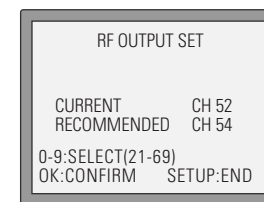
"AUTO SET" tunes in all the stations you can receive in your country and sorts them in an order common for your country.
Clock is automatically set.



4

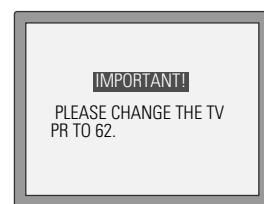
If other stations are positioned on near the current RF OUTPUT CH, the guide message appears automatically.

The player recommends the optimal RF OUTPUT CH number automatically.



5

Press the [OK] button to confirm the recommended PR.



6

Should you wish the stations to have the same numbers as those used on the TV, follow the instructions in "Sorting programme locations" on page 35.

Else ...
exit the basic installation function and enjoy your player.

MANUAL SET			
→ PR01 ARD	PR08 P-08		
PR02 ZDF	PR09 P-09		
PR03 P-03	PR10 P-10		
PR04 P-04	PR11 P-11		
PR05 MTV	PR12 ----		
PR06 P-06	PR13 ----		
PR07 P-07	PR14 ----		
PR+/-:SELECT			
OK:CONFIRM		SETUP:END	

C H E C K — U P !

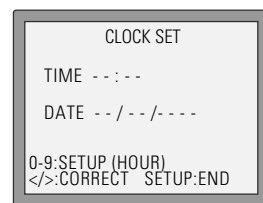
- If you don't see this picture, because you don't use a SCART cable, search this picture now (CH 52) with the station tuning functions of your TV set (see its user manual).
- **RF 52** In case of interference problems on CH 52, type in an other transmission channel between 21 and 69 using the number buttons.

Setting time and date / OSD ON & OFF

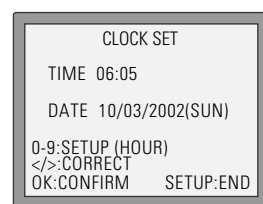
Setting time and date

- Press [VCR] button on the remote control to change into VCR Mode and follow the procedure below.

1 Call the player's "MAIN SETUP", choose "VCR SETUP", then "CLOCK SET".



2 Move to the position you want to change and type in the new values.
Wait a few seconds after typing a one-digit number.

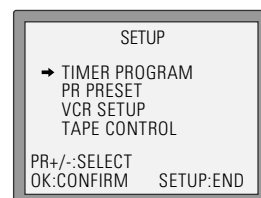


Store with [OK] button and exit with [SETUP] button.

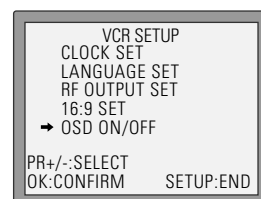
OSD(On Screen Display) ON & OFF

This player is set to "OSD (On Screen Display) ON" mode before shipping and you can change it to OFF mode.

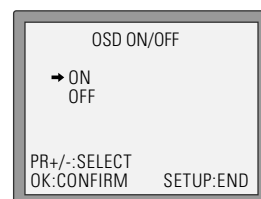
1 Call the player's "MAIN SETUP".



2 Choose "VCR SETUP".
And press the [OK] button.



3 Select "OSD ON/OFF".
If you want OSD OFF mode, select it and press [OK] button to confirm.
Then OSD characters are not displayed in the normal picture.



Output Select

To Select DVD

Press [DVD] button.

If DVD mode is correctly selected, DVD Led on front panel is lighted.

Then, remote control button works as DVD function.

Press the [DVD] button, then the mode of DVD-Video Player becomes to the OPERATION mode.



To Select VCR

Press [VCR] button.

If VCR mode is correctly selected, VHS Led on front panel is lighted.

Then, remote control button works as VCR function.

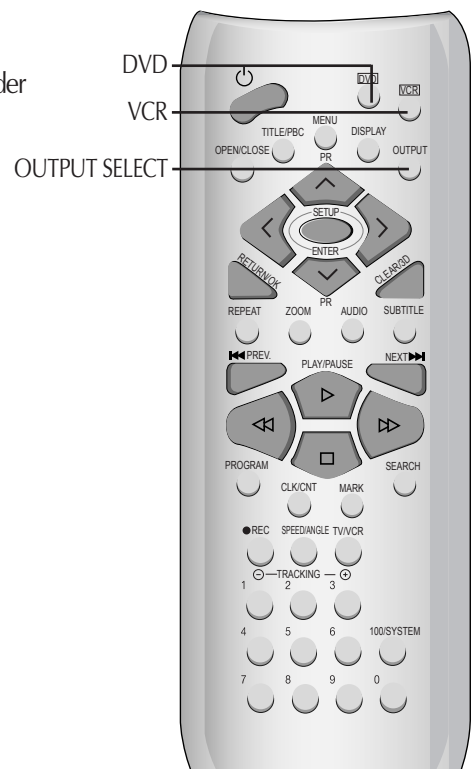
Press the [VCR] button, then it becomes to the VCR OPERATION mode.



To Select Watch Modes or External Input

Press [OUTPUT] button.

Whenever you press [OUTPUT] button, DVD, VCR PLAYBACK, BROADCASTING RECEPTION and EXTERNAL INPUT is selected in order and the DISPLAY of DVD and VCR will be changed accordingly.



DVD Playback

1

Press [] button to power on.

Press [DVD] button of remote control to change into DVD mode.

2

Press [OPEN/CLOSE] button to open the disc tray.

Place a disc firmly on the disc tray, making its label look upward.



3

Insert the disc and press [OPEN/CLOSE] button to close the tray.

The disc tray is closed and after checking the disc's condition, Playback or Stop function starts to operate.

4

To playback it, press [PLAY/PAUSE] button.

- In the case of DVD,
DVD menus and titles are displayed on TV screen.
- In the case of S-VCD and VCD2.0
the menus are displayed on TV screen and it is converted into PBC(Playback Back Control) mode.
- In the case of CD, VCD1.1 and MP3,
the disc plays in order of its track numbers.

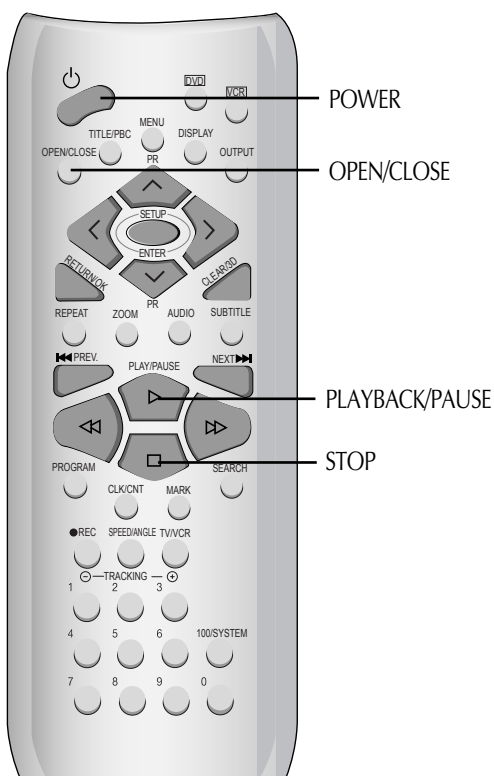
5

To stop it, press [] button.

For pause, press [PLAY/PAUSE] button in playback mode.
If you press this button once more, it starts playback again.

6

Press [OPEN/CLOSE] button to remove the disc.



VCR Playback

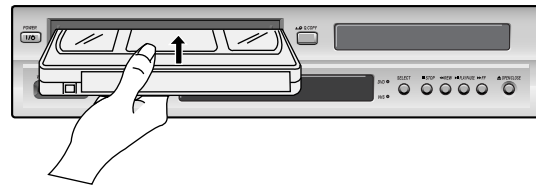
1

Press [] button to power on.

Press [VCR] button of the remote control to change into VCR mode.

2

Insert the desired tape.



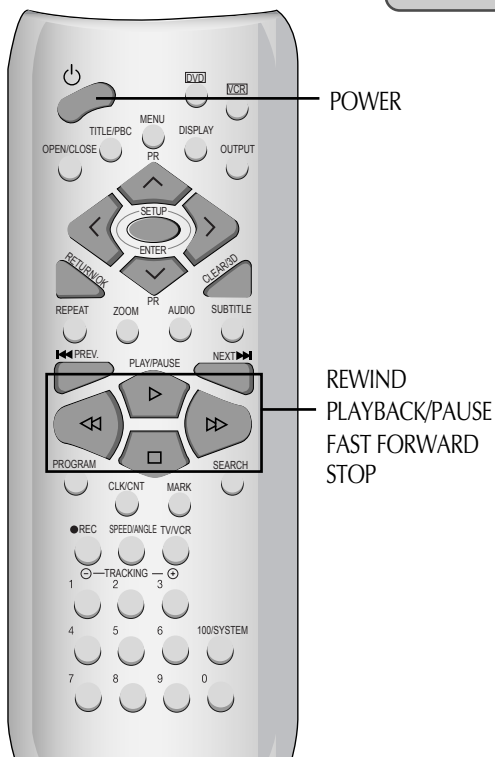
3

If you want to playback it, press [PLAY/PAUSE] button.

When the operational status is flickering or poor, adjust it with [TRACKING +/-] button.

C H E C K U P !

- If the product, which has a auto-detector, detects a contaminated head(s), it shows the conditions to notice the contamination on screen.
- * In case of the notice on screen, please rub the heads with a head-cleaner followed by "How to use a head-cleaner".



4

To stop it, press [] button.

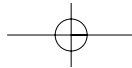
For pause, press [PLAY/PAUSE] button in playback mode. If you press this button once more, it starts playback again.

5

To playback fast forward or to reverse it, press [] or [] button, respectively.

6

Press [EJECT] button in the front part or [OPEN/CLOSE] button on the remote control to remove the tape.



Various Playback Methods

■ If you want fast forward playback,

press [▶▶] button in Playback mode.
You can watch fast playing screen.

■ If you want fast reverse playback,

press [◀◀] button in Playback mode.
You can watch fast reverse screen.

■ If you want still picture,

press [PLAY/PAUSE] in Playback mode.
You can watch the desired screen in pause status.

■ If you want slow-motion playback,

press [▶▶] or [◀◀] button in Pause mode.
You can watch the desired screen in the slow forward or slow reverse playback.
* NOTE: VCR doesn't have Slow Reverse Playback function.

■ If you want to watch a series of screens one by one,(FRAME ADVANCE)

press [NEXT ▶▶] button in Pause mode.
Each time you press this button, the picture advances one frame.

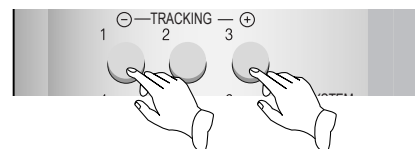
To Adjust Display

This product includes automatic Tracking function and enables users to enjoy clear picture without an additional operation. Provided that the following problems can be solved by the manual adjustment, which improves display quality.

- If the screen is poor in Playback mode,
- If noises occur in the upper or lower part of screen in slow playback mode,
- If paused picture vibrates up and down.



Use [TRACKING +/-] buttons of the remote control to adjust the display suitable for watching.



Recording

To Record With VCR

1

Press [] button to power on.

- Press [VCR] button of the remote control to change into VCR mode.
- Power on TV and select Ch 52 or reset channel, or press [TV/VCR] button to select External Input mode.

2

Insert a recordable tape.

Always insert a tape with recording tab.

3

With [CHANNEL], [NUMBER] and [OUTPUT] buttons, select the desired broadcasting channel or external input unit to record.

4

Select the desired speed (SP or LP) with [SPEED] button.

5

Press [REC] button.

Then, it starts recording.

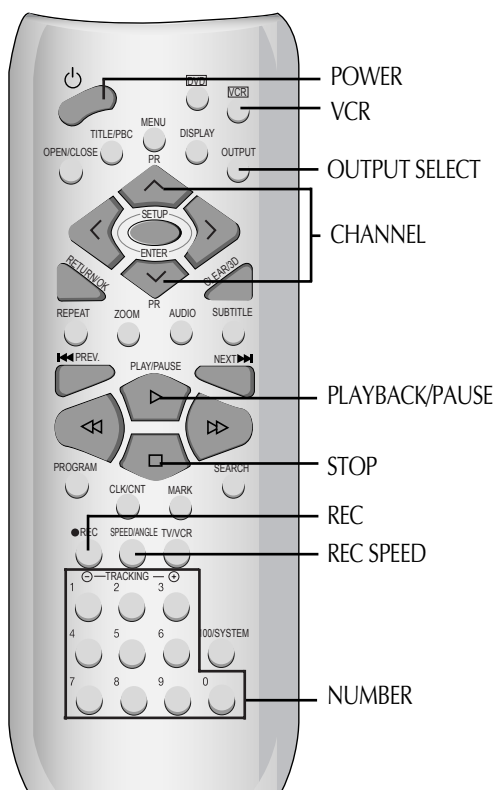
6

If you want to pause recording, press [PAUSE] button.

After pressing [PAUSE] button, if the pause status continues for five minutes, the recording is released automatically.

7

To exit recording, press [STOP] button.



○ To Enjoy Another TV Channel or DVD

1 If you want to watch another TV channel during recording with video, press [TV/VCR] button.

It is available of changing into and watching another TV channel.

2 If you want to playback DVD during recording with video, insert a DVD disc.

Place the desired DVD disc on DVD tray, press [DVD] button to convert OUTPUT SELECT into DVD and press [PLAYBACK] button. Then, you can watch DVD.

○ To Copy From DVD To Videotape

1 Insert the desired DVD disc.

When it is a DVD disc with copy protect function, you can't copy it.

Insert a recordable tape.

2 Press [Q. COPY] button on the front panel.

DVD plays and VCR starts recording.

3 To exit copy, press [VCR] button and then [■] button.

If not, DVD plays again and video continues to copy.

NOTE

- To copy just with buttons of the remote control, after playing DVD, press [VCR] button and then [REC] button.

This product incorporates copyright protection technology that is protected by method claims of certain U.S patents and other intellectual property rights owned by Macrovision Corporation and other rights owners.

Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

○ One Touch timer Recording (OTR)

When your urgent business happens suddenly in watching TV or you want to record the current TV program for the desired time, follow the procedures below.

1

First, follow the steps 1 to 4 in “Recording With VCR”. (See page 30)

2

Press [REC] button as much as you want.

Press the button once for every 30 minutes of program you wish to record. Up to ten hours are possible.

3

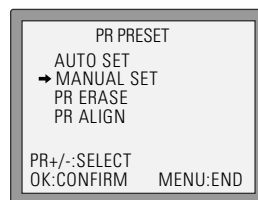
To cancel Simple Recording mode, press [STOP] button more than 5 seconds.

Tuning in New Stations

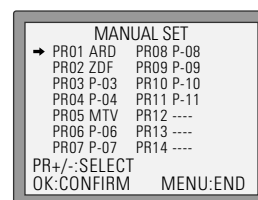
- The TV and player are switched on.
- To see the picture from your player, press the station button on the TV reserved for player input or the AV (Audio/Video) button.
- "AV1/2" should not be selected with the AV button on the player.

Tuning

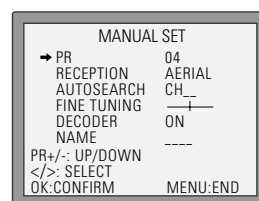
1 To complete the set-up of your video recorder when the auto set has not stored all of the channels or when you wish to store a new channel. Call the video's "MAIN SETUP", choose "PR PRESET".



2 Select "MANUAL SET".

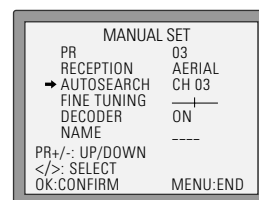


3 Choose any unused location number "----" or "P-xx" ...
It's simplest to use the same location number on both the TV and video.
... and confirm.

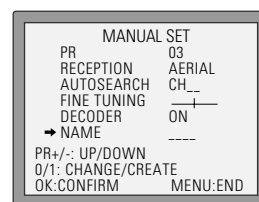


4 Set the station you want:

- the programme location number;
- the broadcast system you want (Aerial(CH) or Cable(CC)),
- You can directly enter the real channel number with the 0 to 9 buttons, or search by pressing < / >,
 - The fine tuning you can adjust,
 - When the program is encoded (and you have a decoder connected to socket EURO AV2), press the < or > to select ON or OFF.
- Change or create the station name.



5 Once you see the station you want, store it.
Tune in further stations (from step 3 onwards) or exit tuning mode.

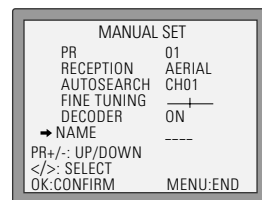


Station names

- If your player is showing no station name or is showing a station name incorrectly, you can correct this. Select "> : NAME CORRECT" on the "MANUAL SET" menu.

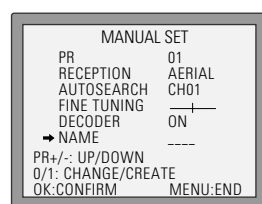
1

Call this menu (just see the left page), if it isn't displayed.



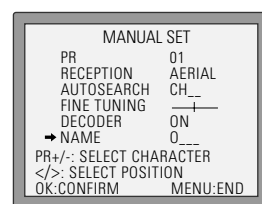
2

Select NAME position.
Press the [0] button to change the given name.
Or press the [1] button to create the station name.



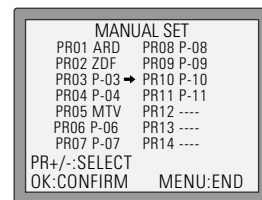
3

Either select the name from the stored list or you create the station name and enter a 4-digit name.
Change the letters with the [PR +/-] buttons, move to the next letter with the [</>] buttons.



4

Store and exit.



C H E C K U P !

- Should you wish to tune in all the channels available in your region, please refer to page 22-23.
- Should you wish to sort or clear stations, please refer to page 35.

○ Sorting programme locations

If the location numbers used for programmes stored in your TV and player are different, you can change them on the player.

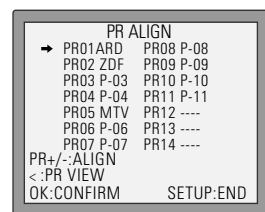
To do this, move the stations to the right numbers, until they are arranged the way you want.

1

Call the player's "MAIN SETUP",
choose "PR PRESET" then "PR ALIGN".

2

Select the programme to swap.
Confirm.
Move the station to the desired location number.
Confirm.



○ Clearing programme locations

1

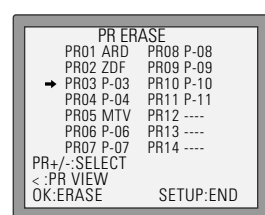
Call the player's "MAIN SETUP",
choose "PR PRESET" then "PR ERASE".

2

Select the station (location number) you want to
clear.

Review the picture.

Clear.

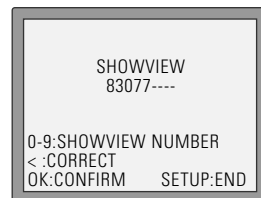


Recording Cassettes

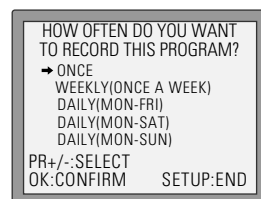
- For timer recordings, clock, date, and stations must be set correctly.
- Load a cassette with its safety tab in place and with sufficient free space for the recording.

Timer recording using ShowView

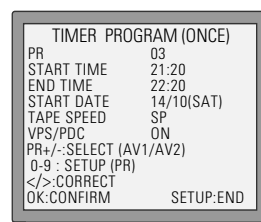
1 Call the ShowView menu.
From your TV magazine, type in the number next to the programme you want to record ...
... and confirm.



2 Decide if you want to record "ONCE", "WEEKLY" or "DAILY" ...
... and confirm.



3 If you wish to make changes:
Move to the position you want to change using the [< / >] buttons.
Change the setting using the [< / >] or [number] buttons. If all settings are ok, press [OK], till you see "OK: CONFIRM" in the bottom line.
Confirm.



Switch your player off.



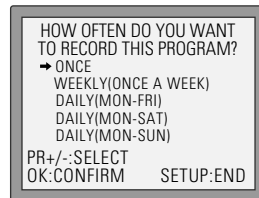
C H E C K U P !

- VPS/PDC is a service provided by some stations to enable you to perform timer recordings precisely even if the broadcaster delays the start time of the programme slightly. The time you enter is the VPS/PDC time so must be correct. Not all stations offer VPS/PDC, in which case the player will start at the time you enter and not the actual start time of the programme. If you wish to start recording at a specific time without it being adjusted by the VPS/PDC system in the event of a delay, switch VPS/PDC off otherwise the player will not record.
- If you don't have the ShowView numbers see next page for the normal timer.
- If you have made a mistake, move back to the relevant position with the < button and change the setting.
- If there is no programme location displayed under "PR" in the change menu, the player doesn't yet know the location number for the programme you want. Type it in and this will be stored for last recordings.
- If you wish to record from a satellite receiver, select under "PR" the satellite programme location or AV (1/2) (depending on the connection with the antenna cable or the SCART-cable). Leave the satellite tuner switched on and to the programme you want.
- Should programming overlap, you get a warning.
- To cancel the recording press the [] button (stop) more than 5 seconds.
- ShowView is a trademark applied for by Gemstar Development Corp.. The ShowView system is manufactured under license from Gemstar Development Corporation.

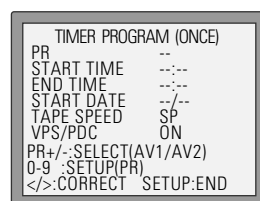
- For timer recordings, clock, date, and stations must be set correctly.
- Load a cassette with its safety tab in place and with sufficient free space for the recording.

Normal timer recording

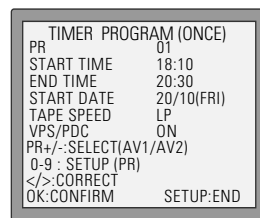
- 1 Call the player's "MAIN SETUP", choose "TIMER PROGRAM".
Decide if you want to record "ONCE", "WEEKLY" or "DAILY"...
... and confirm.



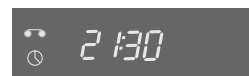
- 2 Type in one after the other:
 - The programme location number;
 - the time the broadcast starts,
 - the time the broadcast ends,
 - the day of the broadcast, if it is not today.
 - Select LP if you wish to make a very long recording .
 - Switch off VPS/PDC here if you need to .



- 3 If you wish to make changes:
Move to the position you want to change using the [</>] buttons. Change the setting using the [PR+/-] or [number] buttons.
If all setting are ok, press [< or >], till you see "OK : CONFIRM" in the bottom line.
Confirm.



Switch your player off.



CHECK UP!

- Wait a few seconds after typing a one-digit-number.
- If you have made a mistake, move to the position you want to change using the </> buttons and change the setting.
- If programme timings overlap, the machine will give a warning message. If you don't adjust the times, the machine will record the first programme completely then continue with the second one.
- If there is no sufficient free space for the recording on the cassette the video switches automatically to "LP" for double recording capacity.
- The recorder will eject cassettes which have the safety tab removed.

Timer Review - changing and erasing

1 Call the player's "MAIN SETUP",
choose "TIMER PROGRAM".

TIMER PROGRAM			
PR	START	END	DATE
→ 03	21:20	22:20	14/10
01	18:10	20:30	20/10
--	--:--	--:--	--/--
--	--:--	--:--	--/--
--	--:--	--:--	--/--
--	--:--	--:--	--/--
--	--:--	--:--	--/--
PR+/-:SELECT			
OK:CONFIRM		SETUP:END	

2 Select the programming to change or erase.
If you want to erase this programming press button [0], confirm with OK.
If you wish to make changes:
Move to the position you want to change using the [<, >] buttons.
Change the settings using the [PR +/-] or [number] buttons.
If all setting are ok, press [< or >], till you see "OK: CONFIRM" in the bottom line.
Confirm changes with OK. Exit the menus.

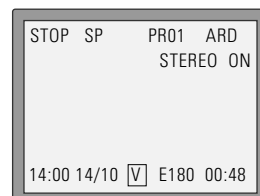
TIMER PROGRAM (ONCE)	
PR	03
START TIME	21:20
END TIME	22:20
START DATE	14/10(SAT)
TAPE SPEED	SP
VPS/PDC	ON
0 :ERASE	
</>:CORRECT	SETUP:END

More Functions

- The counter counts in real time from the point you load the cassette. This does not have to be its beginning! The counter does not count unrecorded parts of the tape.
- If you rewind beyond the zero position, the counter counts in negative values (e.g. – 0:01:15).

○ Clock / counter display

- 1x: Time and date+current status → Time and date
 2x: Counter+current status → counter
 3x: disappear

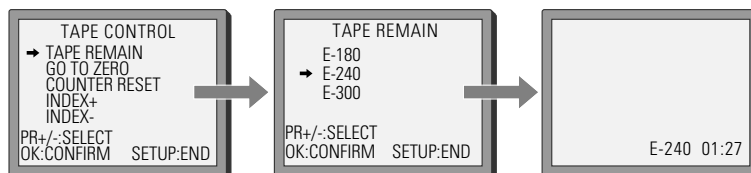


C H E C K U P !

- If didn't wind tape (PLAY, FF, REW,...), it doesn't appear the tape remain time.
- In case that the timer recording information is inputted in the received broadcasting signal, press the button to display the VPS/PDC icon.

○ Remaining time and cassette length

Call the player's "MAIN SETUP", choose "TAPE CONTROL".



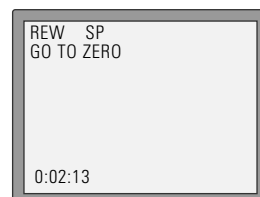
When you want the player to show the time remaining from the current player tape position (to find out if there is sufficient space for a recording, for example).
 To ensure the remaining time shown is accurate, select the length of cassette currently loaded by selecting this function until you reach the correct length.

C H E C K U P !

- Remaining time display is only possible when the cassette is loaded.

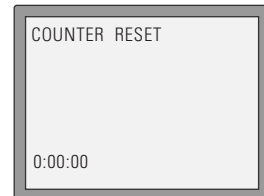
○ Accessing counter zero position

The player will wind to the position 0:00:00 and stop.



Resetting the counter to zero

Reset the counter.



16 : 9 Wide Screen Format Playing back / Recording

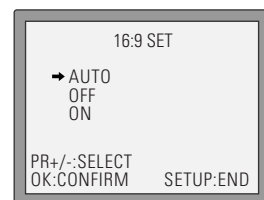
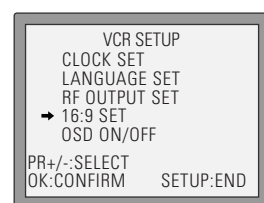
You can play and record the program of 16:9 Wide-Screen format with this player .

• 16:9 Set

-Auto : This player perceives the program format (16:9 Wide Screen format & 4:3 normal TV-format) and plays and records the program with that format.

-ON : For recording the program with 16:9 Wide Screen format. For playing, this player detects the recorded program format and plays the program with that format.

-OFF : For recording the program with 4:3 normal TV-format. For playing, this player detects the recorded program format and plays the program with that format.



C H E C K U P !

- If you watch a program which is recorded by 16:9 wide screen format with this player, your TV must have 16:9 wide screen function and you have to connect TV and player with the A/V scart.

AUTO REPEAT

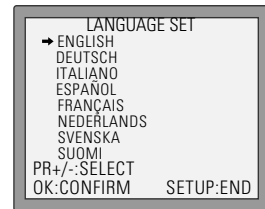
If you press the [PLAY] button for 5secs during stop or still mode, it goes Auto repeat mode. This player plays repeatedly the tape from the beginning to end parts.

To release this mode, press the [] button or mode operation button. (PLAY, FF, REW or STOP)

○ SETUP languages

Call the player's "MAIN SETUP", choose "VCR SETUP", then "LANGUAGE SET".

Select your language.
Confirm.

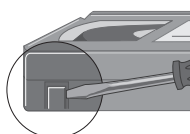


○ Child lock

Press the [⏻] button for about 5 seconds.
No buttons of front panel can be operated now and LOCK INDICATOR ("LOCK") will be displayed on window display.
Keep your remote control in a safe place.
To release child lock, press any button of the remote control.



○ Cassettes



Use only good quality tape cassettes with the VHS logo.

- Keep cassettes away from excessive moisture or dust, magnetic and electrical fields (loud speakers and computer monitors, for example).
- Always wind the tape to the beginning when you have finished. Store with the full spool at the bottom and with the cassette in its cover.

You can protect your precious recordings from being wiped by breaking out the safety tab on the side of the cassette (some cassettes have a slide).

Should you wish to re-use the tape after removing the tab, cover the hole with adhesive tape.

○ and ...

Dimmer

Your player dims its display when switched to stand-by mode.

Auto power off

Your player switches to stand-by when no tape is played and no station is received for more than 5 minutes.

- The player machine records the complete sound signal transmitted by the TV station.
- On the mono VCR, you will hear the normal mono sound.

○ The Hi-Fi system

In addition to the normal mono sound track of VHS video recorders, your player machine is equipped with a high-quality Hi-Fi sound system.

This means you can enjoy

- films with excellent stereo sound
- films of full-length concerts in high quality stereo
- films with impressive Surround Sound using additional Surround equipment
- films with two dialogue modes (dual, bilingual), usually the original sound track and dubbed sound track
- VHS cassettes with Hi-Fi stereo sound and VHS cassette with normal sound

○ What you can listen to

During Stop, the player displays what the current station is broadcasting. When you switch to another station or the current station changes the sound mode, your player displays the programme and sound mode on screen (if not, press AUDIO).

- "STEREO" = stereo
- "BIL I / BIL II" = bilingual
- nothing = monaural sound



During Playback, the player displays what is recorded on the cassette (if not, press AUDIO).

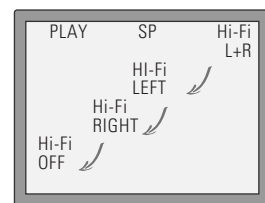
- "Hi-Fi" = stereo/bilingual
- nothing = monaural sound



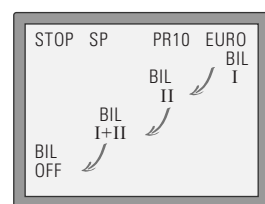
Choice of sound output

During a stereo performance (playback-"Hi-Fi" / broadcast - "STEREO"):

Hi-Fi stereo → left audio channel only → right channel only → the normal mono sound track of a Hi-Fi cassette



- During broadcasting a bilingual performance : Main language (original sound track) → sub-language (dubbed) → both main language and sub-language → OFF.
- For mono performances , there is no choice available.



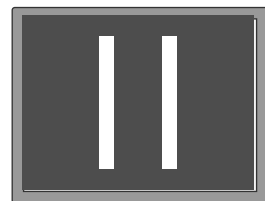
Connections and Copying

- If you are using a SCART cable, select the AV input on the TV to see the picture from the player.
- If you are not using a SCART cable, select the button number on the TV reserved for video input to see the picture from the player.

To the TV via antenna cable (if you are not using a SCART cable)

If you are not using a SCART cable, your player can transmit pictures and sound to the TV via the coax aerial cable. Just tune the TV to the player's transmitting channel (factory set to UHF CH 52). Tune the TV carefully to ensure the best pictures and sound.

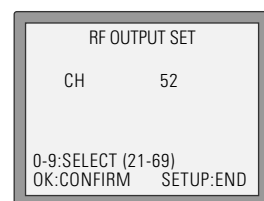
1 Once you have carried out the steps in "Connecting up the player", switch on your TV. Press the OK button of the player's remote control longer than 5 seconds to call the player's test picture. Tune the TV to the test picture using the channel pre-set functions of your TV as described in its manual. When you have found the test picture, store it under the button number on your TV for player input. Press the OK button of the player's remote control again longer than 5 seconds to release the test picture.



2 If the quality of the test picture transmitted to the TV is poor due to interference caused by a station transmitting on channel 52, you can tune the player to a different transmitting channel. Find a free channel between 21 and 69 on your TV. Call the player's "MAIN SETUP" choose "VCR SETUP" then "RF OUTPUT SET".

Type in the free channel.

Store and exit.

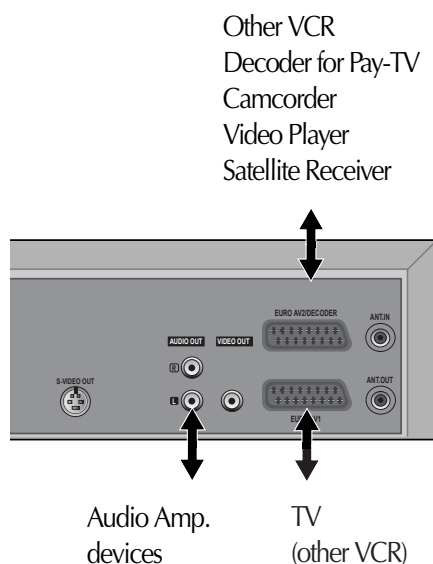


C H E C K U P !

- If the quality of the test picture transmitted to the TV is poor, fine-tuning on the TV may help (refer to the TV manual).
- Without a scart cable, you will not get stereo sound from a TV capable of stereo sound.

- Switch off all components when connecting or disconnecting cables.

○ Copying



To copy to your player from another video machine, connect the two machines with a cable between their EURO AV (SCART) sockets and select as programme "AV 1/AV 2" or "F. AV" (front sockets) using the [AV], [PR+/-] or [] button. Set the other video machine to playback and your machine to record.

- To connect a mono audio source, use the front Audio In socket marked L.

To copy to another video machine from your player, connect the two machines by means of their EURO AV (SCART) sockets.

On the other video, select its AV input and set the machine to record.

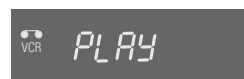
Switch your player to play back at the position you want copying to start.

○ Assembling

Should you wish to assemble your own film, from camcorder footage for example, use the assembly technique for smooth edit points:

- Move the tape to the position at which the new scene is to be added using the play functions.
- Wind back slightly before the edit point and put the machine into pause using the [PAUSE] button (do not press STOP!).
- Now go directly into record.

For the best results, the source cassette from which you are recording should already be playing back when you start recording.



Skipping from a current scene to a desired scene

To skip scenes in a DVD

DVD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1

To move to next scene, press [NEXT ►►] button.

The current scene moves to the next scene.

2

Press [◄◄ PREV] button.

The current scene moves to the first scene.

If pressing it again, it moves to the prior scene.

To play it fast

DVD

VCD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1

Press [►►] button to start fast-play in playing.

Every time you press the button, play speed changes like the below orders

►► x 2 → ►► x 4 → ►► x 8 → ►► x 20 → ►► x 2

Also you can return to normal speed by pressing [►] button.

2

Press [◄◄] button to start reverse fast-play in playing.

Every time you press the button, reverse play speed changes like the below orders

◄◄ x 2 → ◄◄ x 4 → ◄◄ x 8 → ◄◄ x 20 → ◄◄ x 2

Also you can return to normal speed by pressing [►] button.

To play it slow

DVDVCD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1

Press [▶▶] button to play it slow in PAUSE.

Every time you press the button, slow play speed changes like the below orders.

▶▶ 1/2 → ▶▶ 1/4 → ▶▶ 1/8 → ▶▶ 1/2 →

Also you can return to normal speed by pressing [▶] button.

2

Press [◀◀] button to reverse-play it slow in PAUSE.

Every time you press the button, slow reverse-play speed changes like the below orders.

◀◀ 1/2 → ◀◀ 1/4 → ◀◀ 1/8 → ◀◀ 1/2 →

Also you can return to normal speed by pressing [▶] button.

Playing a programmed order

DVD

VCD

CD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.
- Available only in STOP.

1 While STOP or Resume STOP, press [REPEAT] button.

While the right figure appearing, please input desired Title(T) and Chapter(C) number with NUMBER buttons.

* In case of VCD and CD, please input TRACK Number.

Mode1	DVD											
Program												
Title	--					Chapter	--					
	T	C				T	C			T	C	
1	--		4	----		7	----		10	----		
2	----		5	----		8	----		11	----		
3	----		6	----		9	----		12	----		
Clear ALL						Play Program						

2 If completing setting, press [SETUP/ENTER] button after moving a cursor to "Play Program". Then, titles and chapters (track) are played in the above-programmed order.

Mode1	DVD											
Program												
Title	--					Chapter	--					
	T	C				T	C			T	C	
1	01	05	4	----		7	----		10	----		
2	01	08	5	----		8	----		11	----		
3	01	12	6	----		9	----		12	----		
Clear ALL						Play Program						

RANDOM PLAY

DVD

VCD

CD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1 While STOP or Resume STOP, press [REPEAT] button twice.

While the right picture appearing, please press [SETUP/ENTER] button
Regardless of titles or track numbers, it plays in random.

Mode2	DVD											
Shuffle												

Repeating a defined period (DVD)

You may repeat a desired chapter or track.

DVD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1 While in playing, press [REPEAT] button.
In REPEAT mode, you may see the right figure.

```
Mode1    DVD
Repeat
A-B  Chapter  Title  Off
```

Press [SETUP/ENTER] button in the position to repeat.

The beginning of REPEAT position (A) is set in the right figure.

```
Mode1    DVD
Repeat
A-  Chapter  Title  Off
```

Press [SETUP/ENTER] button again in the position to quit a repeat

The end of REPEAT period (B) is set and played repeatedly.

* If you want to stop REPEAT and return to normal condition, please press [SETUP/ENTER] button in "A-B" or "Off" in the below step 4. Then press [SETUP/ENTER] button.

2 Press [REPEAT] button again
Move a cursor to "Chapter" with [>] button, then if the right figure appears, press [SETUP/ENTER] button.
Then, the current chapter is repeated.

```
Mode1    DVD
Repeat
A-B  Chapter  Title  Off
```

3 Press [REPEAT] button one more time.
Move a cursor to "Title" with [>] button, then if the right figure appears, press [SETUP/ENTER] button.
Then, the current title is repeated.

```
Mode1    DVD
Repeat
A-B  Chapter  Title  Off
```

4 Press [REPEAT] button one more time.
Move a cursor to "Off" with [>] button, then if the right figure appears, press [SETUP/ENTER] button.
REPEAT mode is off.

```
Mode1    DVD
Repeat
A-B  Chapter  Title  Off
```

NOTE

- A certain disc may not be repeated.

Repeating a defined period (VCD, CD)

VCD

CD

1 While in playing, press [REPEAT] button.

In REPEAT mode, you may see the right figure.

Press [SETUP/ENTER] button in the position to repeat.

The beginning of REPEAT position (A) is set in the right figure.

```
Mode1    VCD
Repeat
A-B  Track  Disc  Off
```

```
Mode1    VCD
Repeat
A-  Track  Disc  Off
```

Press [SETUP/ENTER] button again in the position to quit a repeat

The end of REPEAT period (B) is set and played repeatedly.

* If you want to stop REPEAT and return to normal condition, please press [SETUP/ENTER] button in "A-B" or "Off" in the below step 4. Then press [SETUP/ENTER] button.

2 Press [REPEAT] button again

Move a cursor to "Track" with [>] button, then if the right figure appears, press [SETUP/ENTER] button. Then, the current track is repeated.

```
Mode1    VCD
Repeat
A-B  Track  Disc  Off
```

3 Press [REPEAT] button one more time.

Move a cursor to "Disc" with [>] button, then if the right figure appears, press [SETUP/ENTER] button. Then, the current disc is repeated.

* Repeat playback of disc is only available in PBC OFF mode.

```
Mode1    VCD
Repeat
A-B  Track  Disc  Off
```

4 Press [REPEAT] button one more time.

Move a cursor to "Off" with [>] button, then if the right figure appears, press [SETUP/ENTER] button. REPEAT mode is off.

```
Mode1    VCD
Repeat
A-B  Track  Disc  Off
```

SEARCH DVD (with a Title and Chapter number)

DVD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1 While in playing, press [SEARCH] button.

"Search 1" screen like the right figure appears.
It shows total title numbers and chapter numbers.
Please enter anew title and chapter number to search with [NUMBER] buttons.

Search1 DVD
Title --- 1-2 Chapter --- 1-8

2 In completing entering, please press [SETUP/ENTER] button.

PLAY starts from the selected position.

Search1 DVD
Title --- 1-2 Chapter 006 1-8

SEARCH DVD (with time)

DVD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1 While in playing, press [SEARCH] button twice.

"Search 2" screen like the right figure appears.
It shows total hours.
Please enter anew hours to search with [NUMBER] buttons.

Search2 DVD
Time -- : -- : -- 02:03:25

2 In completing entering, please press [SETUP/ENTER] button.

PLAY starts from the selected position.

Search2 DVD
Time 01:00:00 02:03:25

SEARCH VCD and CD (with a track number)

VCD

CD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1

While in playing, press [SEARCH] button.

"Search 1" screen like the right figure appears.

(In case of PBC OFF)

Total track numbers appear.

Please enter anew track numbers to search with [NUMBER] button.

* If it is PBC ON, "Search 1" screen does not appear.

Search1 VCD
Track --- 1-12

2

In completing entering, please press [SETUP/ENTER].

PLAY starts from the selected position.

Search1 VCD
Track 009 1-12

SEARCH VCD and CD (with time)

VCD

CD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1

While in playing, press [SEARCH] button twice.

"Search 2" screen like the right figure appears.

(In case of PBC OFF)

It shows current track's time and the whole disc's hours.

Please enter anew hours to search with [NUMBER] button.

* If it is PBC ON, only the track's time appears.

Search2 VCD
Track Time ---:-- 00:03:20
Disc Time --:-- 00:48:31

2

In completing entering, please press [SETUP/ENTER] button.

PLAY starts from the selected position.

Search2 VCD
Track Time 00:01:20 00:03:20
Disc Time --:-- 00:48:31

Confirming the current PLAY mode on screen

confirming the current disc mode

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

DVD

1

While in playing, press [DISPLAY] button.

It shows a disc type, the current title, chapter number, time elapsed and REPEAT mode.



VCD

CD

2

While in playing, press [DISPLAY] button.

It shows a disc type, the current track, time elapsed and REPEAT mode.



Selecting an AUDIO language, SUBTITLE language and 3D AUDIO

Selecting an audio language

A user may select an audio language and subtitle language if a disc includes Multi-language.

DVD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

Keep pressing [AUDIO] button till a user's preferred language appears.

If DVD disc includes audio information, every time a user presses [AUDIO] button, English (ENG), French (FRE), Japanese (JAP), Korean (KOR) and others appear one by one.

Audio 1/3 6Ch ENG

Selecting a subtitle language

DVD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

NOTE

- A certain disc may not support audio select or subtitle select.

Keep pressing [SUBTITLE] button till a user's preferred language appears.

If a DVD disc includes subtitle information, every time a user presses [SUBTITLE] button, English (ENG), French (FRE), Japanese (JAP), Korean (KOR) and others appear one by one. If a user presses [OFF] button, subtitle does not appear on screen.

Subtitle 1/3 ENG

Selecting 3D Audio

DVD

VCD

CD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.
- Available in PLAY mode only.

Please press [CLEAR/3D] button.

If pressing the button twice, a user can select a 3D audio.

** In setting data, "CLEAR/3D" means clear.

Selecting ZOOM and Multi Angle

Using a zoom function

A user can enlarge the current screen about 1.3, 1.5 or 2.0 times.

DVD

VCD

NOTE

- When "TV ASPECT" item is set to "4:3 PS" in setup screen, or with certain discs, 2 times Zoom may not function properly.

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

Keep pressing [ZOOM] button till the preferred zoom appears.

Every time a user presses [ZOOM] button, a zoom magnification changes 1.3 times (X1.3) → 1.5 times (X1.5) → 2.0 times (X2.0) → Off → 1.3 times (X1.3) → ... one by one.

A base point to be enlarged is center and the point can be changed with the operation of [< > ^ v] button.



Different Angle

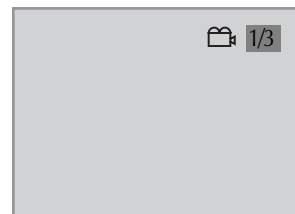
If a disc includes multi angle information, a user can watch a screen in multi angles. The function is limited to a DVD disc supporting multi angle information.

DVD

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

Keep pressing [ANGLE] button till the preferred angle appears.

Every time a user presses [ANGLE] button, an angle degrees changes in a consecutive order.



Memorizing a scene

Once memorizing a scene, a user may watch it anytime.

To memorize a scene

DVD

VCD

NOTE

"BOOKMARK" function during the disc playback of SVCD or VCD2.0 is only available in "PBC OFF" mode. Select "PBC OFF" mode by pressing [TITLE/PBC] button.

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1

While playing, press [MARK] button.

The right figure appears.

Then press [SETUP/ENTER] button and the current scene is memorized in "A".

Bookmark DVD
A---:--:-- B---:--:-- C---:--:--

2

If you want to memorize another preferred scene, press [>] button.

The right figure appears.

Then press [SETUP/ENTER] button and the current scene is memorized in "B".

** A user may memorize "C" continuously with the same method.

Bookmark DVD
A01:30:10 B---:--:-- C---:--:--

Playing a memorized scene

DVD

VCD

NOTE

"BOOKMARK" function during the disc playback of SVCD or VCD2.0 is only available in "PBC OFF" mode. Select "PBC OFF" mode by pressing [TITLE/PBC] button.

1

Press [MARK] button.

Memorized bookmark appears on screen.

Bookmark DVD
A01:30:10 B01:40:00 C---:--:--

2

Move it to preferred bookmark by pressing [>] button.

■ moves to the bookmark position.

In the moment, press [SETUP/ENTER] button to play it.

Bookmark DVD
A01:30:10 B01:40:00 C---:--:--

Displaying menus in a disc

If a disc includes menus, a user may use them.

To display menus in a disc

DVD

VCD2.0

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1

DVD) Press [MENU] or [TITLE/PBC] button.

It shows menus in the disc. Also they are different according to discs. If the disc has title menu, it is operated with [TITLE/PBC] button.

VCD) Press [TITLE/PBC] button.

Every time pressing [TITLE/PBC] button, PBC function turns ON and OFF over and over.

Menu screen only appears when selecting "PBC ON".

- CD and VCD1.1 do not support the function.

2

DVD) Move a cursor to a relative item with arrow buttons of [< > ^ v] button and select one with [SETUP/ENTER] button or [PLAY] button.

VCD) Select a number of menu screen and press [SETUP/ENTER] button.

* If you watch a movie without menu screen, select "PBC OFF" mode by pressing [TITLE/PBC] button.

Basic SETUP mode

While STOP or Resume STOP, press [SETUP/ENTER] button to set menus.

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1 While a disc is stopped, press [SETUP/ENTER] button.

- A screen to set various menus like the right figure appears.
- By using [<] and [>], a set menu changes from Language, which is covered with " ", to Video, Audio and Others.
- Press [^] and [v] for the movement among menus and press [<] and [>] for the select of a menu.



2

In completing settings, press [RETURN/OK] button or [SETUP/ENTER] button.

LANGUAGE Setup

A user can set a language of menus in a disc, audio and subtitle.

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1 While DISC STOP or Resume STOP, press [SETUP/ENTER] button.

2 Selecting a language on screen.

Please select a language to be displayed on DVD screen.

Language	Video	Audio	Others
OSD Language	English	English	English
Audio	English	German	Italian
Subtitle	English	Spanish	French
Disc Menu	English	Dutch	Swedish
		Finnish	

Move: ▲▼ Select: ◀▶ Exit: Setup/Return

3 Selecting an audio language.

Set it as the preferred audio language. In case the audio language is set and recorded in the DISC, it is automatically played in the set language in every playing. For example, English is set and recorded as audio language in the DISC, it is played in English.

Language	Video	Audio	Others
OSD Language	English	English	English
Audio	English	German	Italian
Subtitle	English	Spanish	French
Disc Menu	English	French	

Move: ▲▼ Select: ◀▶ Exit: Setup/Return

4 Selecting a subtitle language.

Please set it as the preferred language. In case the subtitle language is set and recorded in the DISC, it is automatically played in the set language in every playing. For example, English is set and recorded as subtitle language in the DISC, it is played in English.

Language	Video	Audio	Others
OSD Language	English	English	English
Audio	English	German	Italian
Subtitle	English	Spanish	French
Disc Menu	English	French	

Move: ▲▼ Select: ◀▶ Exit: Setup/Return

NOTE

- In case a disc does not include setting languages information, the selected language does not appear.

5 Selecting a DISC MENU language.

Please set it as the preferred DISC MENU language. In case the DISC MENU language is set and recorded in the DISC, it is automatically played in the set language in every playing. For example, English is set and recorded as a DISC MENU language in the DISC, it is played in English.

Language	Video	Audio	Others
OSD Language	English	English	English
Audio	English	German	Italian
Subtitle	English	Spanish	French
Disc Menu	English	French	

Move: ▲▼ Select: ◀▶ Exit: Setup/Return

VIDEO Setup

A user can set up a connected TV condition and screen.

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1 While DISC STOP or Resume STOP, press [SETUP/ENTER] button.

2 Selecting TV Aspect.

If a user selects "4:3 PS", the user can watch only a center of the original scene of "16:9".

If a user selects "4:3 LB", the user can watch the original scene of "16:9", but the top and bottom of the screen look black color.

If a disc size is originally recorded in 4:3, a user cannot watch it in a wide screen though a user sets a size as "16:9 Wide".

Language	Video	Audio	Others
TV Aspect	4:3 PS	4:3 PS	
TV Type	PAL	4:3 LB	
Video Out	S-Video	16:9 Wide	
Brightness	Normal		
Sharpness	Normal		
Move: ▲▼ Select: ◀▶ Exit: Setup/Return			

3 Selecting a TV type.

A user may select a TV type.

A user may select a type among NTSC, PAL or AUTO.

Language	Video	Audio	Others
TV Aspect	4:3 PS		
TV Type	PAL	Auto	
Video Out	S-Video	NTSC	
Brightness	Normal	PAL	
Sharpness	Normal		
Move: ▲▼ Select: ◀▶ Exit: Setup/Return			

4 Selecting a VIDEO OUTPUT.

A user may select a VIDEO OUTPUT between RGB and S-Video.

Language	Video	Audio	Others
TV Aspect	4:3 PS		
TV Type	PAL		
Video Out	S-Video	RGB	
Brightness	Normal	S-Video	
Sharpness	Normal		
Move: ▲▼ Select: ◀▶ Exit: Setup/Return			

5 Selecting a bright degree.

A user may select a bright degree of a screen. There are two choices of Normal and Bright.

Language	Video	Audio	Others
TV Aspect	4:3 PS		
TV Type	PAL		
Video Out	S-Video		
Brightness	Normal	Normal	
Sharpness	Normal	Bright	
Move: ▲▼ Select: ◀▶ Exit: Setup/Return			

6 Selecting a vivid degree.

A user may select a vivid degree of a screen. There are three of choices, Normal, Soft and Sharp.

Language	Video	Audio	Others
TV Aspect	4:3 PS		
TV Type	PAL		
Video Out	S-Video		
Brightness	Normal	Normal	
Sharpness	Normal	Soft	
		Sharp	
Move: ▲▼ Select: ◀▶ Exit: Setup/Return			

AUDIO Setup

A user may select audio menu according to a user's speaker set.

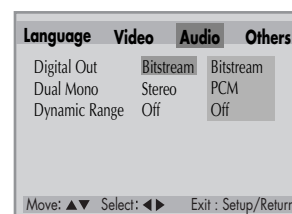
- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1 While DISC STOP or Resume STOP, press [SETUP/ENTER] button.

2 Select a digital output.

Set output conditions to coaxial or optical terminal. You can set following three(3) values of digital output;

- **BITSTREAM:** The same signal as audio signal recorded in disc goes to digital audio output terminal.
- **PCM:** Decoded audio signal goes to digital output terminal.
- **OFF:** Not any output goes to digital audio output terminal.



3 Select Dual Mono.

Dual Mono means 2 individual mono channels. Dual Mono is mainly used to apply 2 different languages to one program. This function is similar to multichannel sound function supported in TV or VCR. 2 mono channels can be combined into total 4 values; Stereo, L- Mono, R- Mono and Mixed Mono.

- **Stereo:** outputs left channel and right channel to left speaker and right speaker respectively.
- **L- Mono:** outputs left channel to left speaker and right speaker.
- **R- Mono:** outputs right channel to left speaker and right speaker.
- **Mixed Mono:** mixes 2 mono channels and outputs the mixed channel to left and right speaker at the same time.

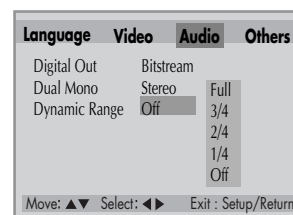


4

Select a Dynamic Range.

Dynamic range can differ by users and their watching environment. High-density audio programs like movies have wide dynamic range. In the dynamic range, explosion sounds 20dB higher and rustle of leaves sounds 50dB less than conversation. Sometimes, depending on watching environment, loud sound should be heard louder while soft sound should be heard softer. Likewise, very soft sound is not audible and viewers should raise the sound level.

Set "Off" to view a program in the dynamic range as recorded in disc. If you hear loud sound softer and soft sound louder, set a suitable value below "Full".



Other Setup

- Before setting it, you should change status into DVD by pressing [DVD] button on the remote control.

1 While DISC STOP or Resume STOP, press [SETUP/ENTER] button.

2 Select character display window.

Language	Video	Audio	Others
OSD	On	On	
Angle Mark	On	Off	
Screensaver	On		
Defaults	Reset		
Parental	8 Unlock		

Move: ▲▼ Select: ◀▶ Exit: Setup/Return

3 Select angle mark.

Language	Video	Audio	Others
OSD	On		
Angle Mark	On	On	
Screensaver	On	Off	
Defaults	Reset		
Parental	8 Unlock		

Move: ▲▼ Select: ◀▶ Exit: Setup/Return

4 Select screen save.

If bright scenes continue to be displayed in screen, TV can be damaged. Set the screensaver to "ON", the screensaver functions automatically and DVD logo moves continuously if the resume stop, stop or open status for about 5 minutes.

Language	Video	Audio	Others
OSD	On		
Angle Mark	On		
Screensaver	On	On	
Defaults	Reset	Off	
Parental	8 Unlock		

Move: ▲▼ Select: ◀▶ Exit: Setup/Return

NOTE

- "Parental Lock" activates only if you set a password and the unit goes into Lock status. When the disc has no parental function even if the disc for adult only, Parental Lock doesn't activate.

5 Select defaults.

If you select defaults, every function set returns to FACTORY defaults except PARENTAL.

Language	Video	Audio	Others
OSD	On		
Angle Mark	On		
Screensaver	On		
Defaults	Reset		
Parental	8 Unlock		

Move: ▲▼ Select: ◀▶ Exit: Setup/Return

6 Select PARENTAL.

It consists of 8 levels of violence, sexual scene, strong sexual scene and others to protect children from watching those scenes.

Language	Video	Audio	Others
OSD	On		
Angle Mark	On		
Screensaver	On		
Defaults	Reset		
Parental	8 Unlock		

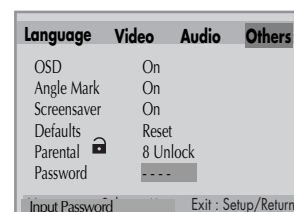
Move: ▲▼ Select: ◀▶ Exit: Setup/Return

Setting a user's PARENTAL

1 Entering a password.

If selecting "PARENTAL" by moving [>], a password display appears.

Then entering a user's password, a user can resettle a user's PARENTAL.



2 Resettling a user's PARENTAL.

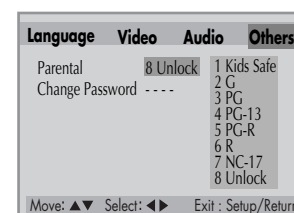
Set your desired level in PARENTAL display.

As the number is higher, it means the film gets close to an adult film.

It, however, operates only when a DVD disc includes PARENTAL information.

For example, if a user settles the 6th level, 7th or 8th level disc cannot be played.

For the change of a user's password, please move to "CHANGE PASSWORD" and enter new password.



C H E C K U P !

- The initial password is 3308. In case you forget newly-input password, you can use 3308 as a password.

About DVD

Playable Disc

- DVD, Video CD (Version 1.1, 2.0), S-VCD and Audio CD

Disc type	Playable	Restriction
DVD	Possible	Region number 2 or Region number All
Video CD	Possible	Version 1.0/1.1/2.0, SVCD/CVD
CD	Possible	PCM or dts
CD-G	Possible	Only Audio playback
CD-ROM	Possible	MP3 File, 256 Files in maximum
CD-R	Possible	Video-CD/CD/CD-ROM (MP3 File)
CD-RW	Possible	Video-CD/CD/CD-ROM (MP3 File)
DVD-R	Possible	DVD Video
DVD-ROM	Impossible	
DVD-RAM	Impossible	
DVD+RW	Impossible	
Photo CD	Impossible	

REGION MANAGEMENT INFORMATION

This unit is designed and manufactured to respond to the Region Management information that is recorded on a DVD disc. The region number of this player is "2". If the region number described on the DVD discs does not correspond to the Region number of this player, the player will not play this disc. This player will play DVD discs made for "ALL" regions. Therefore, this player will play DVD discs marked with labels containing the region number "2" or "ALL".



(Region 2)



(Region ALL)

Terms related with DVD

DVD	A DVD (abbreviation of Digital Versatile Disc or Digital Video Disc) can include 135 minutes of video information. And for audio, it can hold up to 8 kinds of languages and 32 kinds of subtitle languages. By using MPEG-2 video compression and digital 3D surround sound, DVD realizes high-defined screen and quality sound like a movie theater.
CDDA	A CDDA (abbreviation of Compact disc digital audio) is a music disc that is currently used.
MP3	Audio compression format that enables audio files to be stored and transferred on a computer with a relatively small file size. It enables you to enjoy CD quality music. (Short for MPEG-1 Layer 3)
PBC	This is recorded on a Video CD 2.0, Video CD 3.0, SVCD and CVD. The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor. It stands for PlayBack Control.
CHAPTER	It means the information recorded in a DVD. A title in a DVD is divided into many tracks, of which a track is called as a chapter. A certain scene of a screen can be quickly searched with the chapter number.
TITLE	It means the information recorded in a DVD. A DVD can be divided into many titles.
TRACK	It means the information recorded in a video CD and audio CD. A disc consists of many a track, for which a user can search a certain position.
dts	Digital Theatre System is a 5.1 -channel surround sound system, which is widely used in movie theatres around the world. It enables the bit rate to be increased to provide good sound quality.
Multi Angle	Some DVD discs contain the various scenes that have been simultaneously shot from a number of different angles.
PCM	Linear PCM is a signal-recording format used in a CD, while CD is recorded in 44.1kHz/16bit, a DVD is recorded in 48KHz/16bit up to 96KHz/24bit.
Dolby digital	Dolby digital is a system maximized surround sound from the reform of the existing 4 channel Pro-Logic. Basically the system consists of 5 channels of a center speaker, L & R speakers and L & R rear speakers. Dolby digital adds a sub-speaker to the above system in order to reinforce sub-woofer.
Dolby Pro-Logic	You will get the full benefit of Pro Logic from the same DVD discs that provide full 5.1 channel Dolby Digital soundtracks, if you have a Dolby Pro Logic Surround decoder.
Bitstream	A series of data streams not decoded by Dolby Digital decoders or dts decoders. To use bitstream, you require an amplifier with a built in Dolby Digital or dts decoder.
Lt/Rt	It indicates L/R of Dolby Digital 2CH Downmix output.

L/R/C/SW/LS/RS

In Dolby Digital and dts, a total 6 channels are used. 3 channels for front, 2 channels for surround and 1 channel for subwoofer. They are a front left, a front right, a center, a subwoofer, a rear left and a rear right. L stands for front left, R for front right, C for center, SW for subwoofer, LS for rear left surround and RS for rear right surround.

Downmix

DOWNMIX is reproducing the proper audio when audio format recorded on a disc differs from the output audio channel configuration. For example, with just one stereo speaker system you can hear full 5.1 channel audio.

S-VIDEO

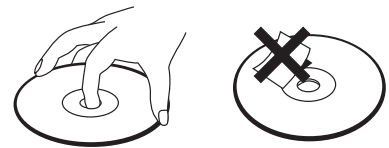
The S-VIDEO output separates the color (C) and luminance (Y) signals before transmitting them to the TV set in order to achieve a sharper picture. So this must be selected from the menu to enable the S-VIDEO output to function.

COMPONENT

It is called color difference signal and is a technology to divide and transmit a color signal (C) into B-Y and R-Y color difference signal. This technology supplies clearer and more vivid picture than composite video type.

○ Handling Disc

- To keep a disc clean condition, please do not touch a side containing play information.
- Do not attach a bit of paper or sticky tape on it.
- Do not expose a disc to a direct sunlight or electric heating systems.
- After using it, please keep a disc in a case.



○ Cleaning Disc

- Before using it, please rub it from center toward outside with clean clothes.
- Do not use any type of solvent such as thinner, benzol (benzene), commercial cleaning goods or antistatic sprays.



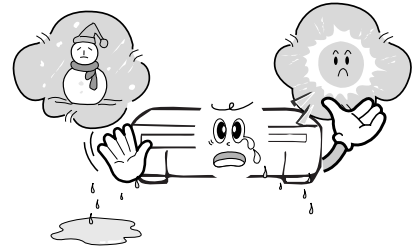
Basic information about VCR and Videotape

What is dew condensation symptom?

- If a player is moved from a cool place to a warm and damp place or a place facing a direct cool wind from air-conditioner...and others, temperature varies sharply, which makes dew on head drums of player.

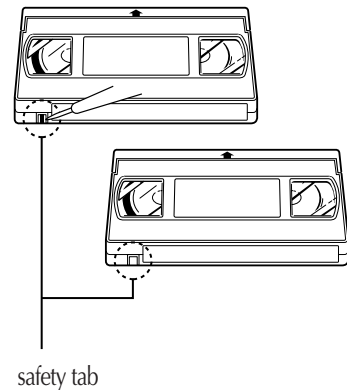
If dew condensation occurs,

- 1 First, turn it on for one or two hours before using it.
- 2 Do not use it because it may develop troubles of a player or videotape.



What is a record tab of a videotape?

- The tab on a videotape enables a user to record and prevents the recorded area from rerecording.
- To record it, a user should use a videotape with a tab.
- If a user input a videotape without a tab to record, the videotape is ejected automatically.
- In order to avoid a recorded area to be rerecorded, a tab should be removed.
- To rerecord a recorded videotape, please scotch-tape on the removed tab position.



Noise

- Noise means poor screen conditions of player such as interruption or trembles in the top of bottom of a screen.
- If a noise occurs, please adjust a screen by operating "TRACKING" buttons .
- Adjustment may not improve quality screen if the tape is originally recorded mixed with some noise or kept in poor conditions.
- If some noise remains after adjusting it, VCR heads may be contaminated or worn.
- In case VCR heads are contaminated, please rub them cleanly.



Auto-detect the contamination of VCR heads

- If the product, which has a auto-detector, detects a contaminated head(s), it shows the conditions to notice the contamination on screen.
- * In case of the notice on screen, please rub the heads with a head-cleaner followed by "How to use a head-cleaner".

How to use a head cleaner

- In case of a old or contaminated videotape, screen may not be clean from the contamination of player heads. Please remove contaminants using a head-cleaner like below order.
- 1 Insert a head-cleaner into player
 - 2 Press "PLAY" for 5 seconds, and then press "FF" for about 10 seconds.

PLAY (5secs)



FF (10secs)

- 3 Eject a head-cleaner from player
 - If the screen is not clean yet, please repeat the above 2 or 3 times more.
 - A head-cleaner is not for sale. Please ask it for the nearest agent.
 - In case a user ask the removal of contaminants of us, the user should pay extra charges.

Before doubting about troubles (DVD)

Symptom	Checks
The recorder does not play.	- If a DVD is from overseas, it may not be played. Please check a DVD's region code whether it has the relative region code 2 or All. - Please check whether a DVD is inserted in a right direction. - If it is a CD-ROM for PC or DVD-ROM, it does not work.
No sound comes through.	- Play mode may be "SLOW" or "PAUSE"(In abnormal speed play, no sound comes through) - Did you connect the parts in right way? - Please check the operative condition of TV or amplifier. - From "DEFAULT" SET, please check "AUDIO" items.
A disc is playing but screen does not appear or poor screen appears.	- Did you turn on your TV sets? - Did you connect the parts in right way? - The play may be in "PAUSE". - A disc may have some contaminants or be damaged. - A disc may be bad one.
Sound is irregular	- Please check the connection with Dolby digital amplifier. - Please check the plugs are connected with one another tightly. - Some contaminants may be remained in connection terminal.
remote control does not work.	- Please check the degree of the remote control, distance or any interruption. - Battery may be weak or exhausted. - When you operate DVD, use it by pressing [DVD] button.
Dolby digital 5.1 CH sound does not work	- Dolby digital 5.1 CH sound can be worked in the Dolby digital amplifier only. - Please check "Dolby digital 5.1 CH" mark on your DVD. - In case of playing it through digital output, while pressing "STOP", please check whether "DIGITAL OUTPUT" is "BITSTREAM" by pressing "SETUP". - Please check the connection is correct.
"AUDIO" or "SUBTITLE" button does not work.	If a DVD does not include language information, it does not support the function.

Symptom	Checks
• “ANGLE” button does not work while a DVD is playing.	➤ “ANGLE” is supported only in a DVD contains multi angle scenes. Also a user can confirm the support with the “ANGLE” mark on screen.
• “MENU” does not appear while a DVD is playing.	➤ Please check the degree of the remote control, distance or any interruption. ➤ Please check a battery in the remote control whether it is exhausted or not. ➤ A DVD may not contain menu information.
• Screen shakes or appears only in black and white.	➤ The recorder may not coincide with your TV system. Please press “SYSTEM” to match to TV system. ➤ A disc may have some contaminants or be damaged.

Before doubting about troubles (VCR)

Symptom	Checks
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■ Power

• "Power On" does not work.	➤ Please check whether a power plug is inserted in an electric outlet.
• It does not work even in "Power On".	➤ Please check whether a videotape is inserted in. ➤ Try to insert a plug again.

■ Input and ejection

• A videotape is not inputted in.	➤ Please check whether a power plug is inserted in an electric outlet. ➤ Please check whether a videotape is in. ➤ Please check whether a videotape is inserted in a right direction (a side of transparent window should be on the upside) ➤ Have you inputted a videotape again just after the tape was ejected? Please try it again after fully ejecting it. ➤ When a videotape forces to be ejected, the tape may not be inputted. In the case, please pull out an outlet, and then push the tape smoothly.
• On inputting a videotape, the tape is re-ejected.	➤ That's why a safe mode to protect a videotape is operated automatically. Please pull out the tape and input it again.
• A videotape is not ejected.	➤ In case the product is used for a long time, a videotape may not be ejected for a film inside may be stretched. In the case, please pull out a power plug for about 10mins and then press "EJECT" button.

■ Screen and noise

• A channel on video and a play screen does not appear.	➤ Please check your antenna's connection. ➤ TV channel should be fixed on video channel. ➤ Please check your antenna's signal whether it may be weak. In case of its weakness, please use a frequency amplifier connected with the device. ➤ Press "TV/VCR" and then let "VCR" is displayed on the display panel.
• Noise (screen noise) appears on screen.	➤ While in no use of VCR, was it turned on? ➤ While in recording a program, do you watch another channel? ➤ Select TV by pressing [TV/VCR] button on the remote control.

Symptom	Checks
Noise appears on screen after recording.	While in playing a videotape, there may happen some noise or blot in the part of the beginning of a videotape or resuming "PAUSE", which are not breakdown.
While in playing, noise appears.	Please press "TRACKING" for better screen. Videotape may be poor. Try to change it to another one.
- Sound and screen are irregular. - Sound comes out but screen does not appear. - Screen is irregular and stripes appears.	Please use a head-cleaner to clean VCR heads. VCR heads may be contaminated.
While recording and playing, the top of screen extremely waves.	Since VCR Play signals are not stable like a TV signals, screen may be unstable or curved while in playing. To fix the problem, please horizontal adjustment.

■ Play

A screen is not clear.	- In case videotape is the one recorded by other products or old one, stripe may appear on the screen. - Try to adjust the screen by [TRACKING+/-] button - Try to use a head-cleaner.
A screen at pause is trembling or slow screen is not clear.	- Try to use a head-cleaner. - Try to adjust the screen by [TRACKING+/-] button.

■ Recording

Recording a TV program is impossible.	- For recording, you should use videotape with a tab. - Please check whether a channel is fixed on video. If not, you have to turn it into "TV" by pressing "OUTPUT" button. - Please check whether the timer recording info is right. - Are coaxial cables inputted antenna connection terminal correctly? - Does a CH number selected in display section appear? - Please check a tab on a tape whether it is broken or not. (If it was broken, please scotch-tape it)
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Symptom	Checks
Recording a TV program is impossible.	- Check whether a tape attached with a recording tap is inserted. - Check whether the screen is displayed in VCR Only Channel. Press [OUTPUT] button in this remote controller to adjust in "General Broadcast" condition. - Is the rounded line (coaxial cable) connected in "ANT.IN" terminal? - Is the selected channel number shown in Display? - Is a tab of cassette tape broken? (Please cover a tab hole with cellophane adhesive tape (Scotch tape).)
Once pressing "REC", a videotape is ejected automatically.	- Please check whether the clock is right. - Does the display on your video show "⏏" (Ready to timer recording)? Please make it out. - Please check whether the timer recording info is right. - Please check a tab on a tape whether it is broke or not. (If it was broken, please scotch-tape it)
Timer recording of Cable TV does not work.	- Was a cable data output code connected correctly? - Were a converter manufacturer setup and output channel right? - Did you enter a password? (Please cancel it.) - Did you turn off your player? (Please turn it on.)
In spite of pressing "CHANNEL", a channel can not be set.	- You may not memorize channels. - Please check your channel setting or press a number button.
While duplicating, screen is not clean and distorted.	Some tapes or discs distributed in the market for lending is set to prevent copy in manufacturing. These tapes cannot be duplicated in a good condition.

■ remote control

The remote control does not work.	- Battery may be weak or exhausted. - A receiver of the remote control may be different with a sender.
Buttons on the remote control do not work.	- In case a videotape is positioned in the beginning, "VISS REW" and "REW" do not work. - In case a videotape is positioned in the end, "FF", "VISS FF", "PLAY" and "REC" do not work. - Please check whether another button is pressed.

Symptom	Checks
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■ Others

• VISS index search does not work.	➤ Are you playing a tape that is not recorded in this recorder? (Try to record it with the recorder.) ➤ You may start recording it in "REC-PAUSE". Please start recording it from stop condition.
• Cable broadcasting can not be selected.	➤ Please select "CABLE" not "NETWORK" from the "CHANNEL SETTING".

Specifications

Power	AC 110~240V 50/60Hz	
Consumed electricity	Hi-Fi : 27W, Mono : 26W	
Weight	5.7kg	
Dimension (W x H x D)	430mmx91mmx355.5mm	
Operative temperature	+5°C~40°C	
Installation condition	Horizontal / Relative humidity under 80%	
Signal type	PAL COLOR	
Antenna Input/output	U/V-mixed: 75Ω unbalanced	
VIDEO input	1.0Vp-p (unbalanced, RCA JACK)	
AUDIO input	-8.8dBm, RCA JACK	
VIDEO output (common use of DVD and VCR)	VIDEO output terminal, 1.0 Vp-p unbalanced, RCA JACK, SCART JACK	
VIDEO output (DVD only)	S-VIDEO output (75Ω In load Y: 1.0Vp-p, C:0.286Vp-p) RGB output (75Ω In load R: 0.7Vp-p, G:0.7Vp-p, B:0.7Vp-p)	
AUDIO output (common use of DVD and VCR)	Audio output terminal (2 kinds): -8.8dBm(VCR), 2Vrms(DVD), RCA JACK	
AUDIO output (DVD only)	Analogue AUDIO output : 2.0Vrms Digital audio output (OPTICAL, COAXIAL)	
Playable tape	Very high dense tapes with VHS marks	
Playable disc	DVD, VIDEO-CD, CD (12mm), CD (8mm), MP3, CD-R, CD-RW	
Tape speed	SP: 23.39mm/s, LP: 11.70mm/s	
Playtime	SP: 2hrs, LP: 6hrs (use of E180tape)	
Clock display	24 hrs	
Time Recording	8 programs a year	
Persistence in power failure	1 min	
VIDEO S/N (VCR)	Over 43dB(Standard recording)	
Resolution	VCR	Over 240 lines (Standard recording)
	DVD	500 lines (Playback DVD)
AUDIO (VCR)	Over 65dB(Hi-Fi), Over 40dB(Mono)	
AUDIO (DVD)	90dB	
AUDIO dynamic range	90dB	

DVD Audio output standards

Output	Disc type		
	DVD	VIDEO-CD	CD
Analogue Audio output	48/96KHz sampling	44.1KHz sampling	44.1KHz sampling
Digital Audio output	48KHz sampling	44.1KHz sampling	44.1KHz sampling
Optical digital audio output	48KHz sampling	44.1KHz sampling	44.1KHz sampling

Region Code

The product and all DVD disc have region codes. So if both codes are not coincided each other, it does not work. Legion codes are like the below.

